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**REGIONAL IMPACT OF A NORTHERN  
GAS PIPELINE VOL. VI**

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Publication

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REGIONAL IMPACT  
OF  
A NORTHERN GAS PIPELINE

Volume 6 - Impact of Pipelines on Territorial  
Population, Labour Force, Employment and Income (Wages)

An Appraisal Prepared By  
The Economic Staff Group  
Northern Economic Development Branch  
Department of Indian Affairs  
and Northern Development

and

MPS Associates Ltd.

for the  
Environmental-Social Program  
Northern Pipelines

February 1974

*Canada*  
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The data for this report were obtained as a result of investigations carried out under the Environmental-Social Program, Northern Pipelines, of the Task Force on Northern Oil Development, Government of Canada. While the studies and investigations were initiated to provide information necessary for the assessment of pipeline proposals, the knowledge gained is equally useful in planning and assessing highways and other development projects.



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## PREFACE

### SIGNIFICANT ALTERATIONS IN BASE DATA RELATED TO THE CONSTRUCTION OF THE PIPELINE AFTER COMPLETION OF ANALYSIS

Basic information concerning the cost of constructing the Mackenzie Valley Gas Pipeline, its route, specifications and the timing of construction was available in only a rudimentary form when the study of the Regional Impact of a Northern Gas Pipeline was undertaken. Although there remain large areas of uncertainty concerning many important aspects of the phases of construction of the pipeline, present knowledge of construction is understandably more complete today than it was when the study began. Certain assumptions made in the study are no longer applicable but it is considered that the overall analysis remains valid, even in the light of these changes. This Preface points out the significant changes in cost estimates, pipeline specifications, pipeline routing, and construction scheduling which are a result of more recent knowledge.

#### (i) Overall Cost

The Impact Study was provided with estimates of the costs of building the pipeline in the North by the various study groups which suggested a value of approximately \$1.2 billion. Present statements by Canadian Arctic Gas Study Limited suggest a cost of \$5 billion. The difference between these estimates is mainly due to the fact that the \$5 billion figure refers to the complete project, including the Alaska and southern Canada sections. According to estimates prepared by the Northern Program Planning Division (formerly the Economic Staff Group) if these costs are expressed in 1973 constant dollars, the \$1.2 billion estimate would be \$1.4 billion, while the \$5 billion estimate, when adjusted to measure only the cost of the relevant sections of the pipeline, would be \$2.0 billion. Of the difference, \$140 million is caused by more expensive financing costs, while the rest of the increase stems from an underestimate of the cost of materials and equipment. The initial estimates of labour requirements and costs appear to remain valid.

#### (ii) Pipeline Routing

The initial aim of building the Mackenzie Valley Gas Pipeline was to transport natural gas from Prudhoe Bay, Alaska to markets in the U.S.A., with the prospect of linking any finds in the Mackenzie Delta to it at a later time. In the light of gas discoveries in the Delta it now seems more likely that the Delta connection would be made concurrently with or even preceding the Prudhoe Bay connection. This shift in interest to the Mackenzie Delta region prompted the need to investigate the impact of the long-term development of the petroleum industry in this region. Thus additional analysis was carried out on the possible impact of future development prospects on the Delta region, and the results of this work are shown in Chapter 14 of Volume 1.



(iii) Construction Phases

The Impact Study has assumed that major pipeline construction activity would proceed more or less continuously over three and a half years, beginning in early 1976, and finishing in 1979. Although the exact time periods involved are still a matter of some speculation, current plans aim to start construction in the winter of 1976-1977 and to spend only two construction seasons on building the pipeline through to the Mackenzie delta, with a third winter for an extension to Prudhoe Bay. Major construction activity will be limited to four winter months in the Territories. Thus more recent plans are based on significantly more optimistic construction schedules than those outlined in the study. This will clearly lessen the duration of the impact of the construction of the pipe on the Territories, relative to some of the results of analysis in the study.

(iv) Pipe Specification

The major change in pipe specifications that is of concern to the study concerns the wall thickness of the pipe. Northern sections of the pipe will have a thickness of 0.75", which is approximately 15 per cent thicker than that anticipated. This means that the pipe is some 15 per cent heavier than had been assumed, and, in the light of this, the estimate of transportation requirements has been reviewed. The overall weight of pipe to be moved into the Territories is now estimated at 866,000 tons compared to 750,000 tons initially estimated. However, since the number of lengths of pipe would remain unaltered, there would be no significant change in the number of men required to handle and transport them.

The major impact of the heavier pipe appears to arise from the need to have more units of pipe-laying equipment than would otherwise be the case.

(v) Mackenzie Highway

Completion of construction of the Mackenzie Highway before the construction of the pipeline was not anticipated in the study. The decision to accelerate construction of the highway will provide an alternative means to the Mackenzie River, of transporting material and equipment to stockpiles along the pipeline route. The impact of a highway on the pipe installation would be significant because it would induce a major shift in the expected pattern of transportation of the pipe and equipment away from barges and onto trucks. Although the barge traffic is thought to remain predominant, the ton-miles of materials carried by highway is expected to be triple that originally estimated.

## INTRODUCTION

This volume is a background study of the economic impact on Canada's northern territories of constructing and operating a large diameter gas pipeline from Alaska through the Mackenzie Valley to the northern border of Alberta. Seven volumes constitute the overall evaluation:

- Volume 1 - Summary Report
- Volume 2 - Relevant Aspects of Pipeline Construction and Operation in the Territories and Impact on Local Petroleum Resources
- Volume 3 - Impact of a Pipeline on Territorial Transportation Facilities, Resource Output and Industrial Development
- Volume 4 - Impact of Pipelines on Selected Territorial Communities
- Volume 5 - Impact of Pipelines on Traditional Activities of Hunter-Trappers in the Territories
- Volume 6 - Impact of Pipelines on Territorial Population, Labour Force, Employment and Income (Wages)
- Volume 7 - Analysis of Overall Territorial Impact of a Through Gas Pipeline

The Economic Staff Group, Northern Economic Development Branch, Department of Indian and Northern Affairs initiated the research project in 1971, undertaken as a joint evaluation between the Economic Staff Group and MPS Associates Ltd. Both groups provided members to the project team and research topics for the relevant volumes of the project assigned to individual members.

The conclusions in Volume 1 are those of the study group as a whole, while the conclusions and opinions in Volumes 2 to 7 are those of the respective authors.

The principal author of Volume 6 was Sheila K. MacBain of the Economic Staff Group. Part 4 was written by Peter J. Usher of the Northern Science Research Group.



PREAMBLE TO VOLUME 6

Any construction as large and complex as a large-diameter pipeline will have an inevitable impact on the economy of the affected area. More importantly, an area as remote and sparsely populated as the Mackenzie Valley, the effects could be quite marked, particularly on the local native residents. Impact, to some degree, would be felt whether or not government authorities acted directly to involve local residents in pipeline construction and related activities.

Since it is the announced intention of the federal government to involve territorial residents to the maximum extent possible in construction of the pipeline, it is important that careful appraisal be made of that population. Those territorial residents, who are most in need of wage employment, are the native residents who are of Indian, Eskimo and Métis origin. Most non-native residents in the northern territories are fully employed; they are in the North specifically to work, be they persons born in the territories or those who have come north to work.

In assessment of the impact of construction of a large-diameter gas pipeline on the population of the Mackenzie Valley, the impact on the native population emerges as most significant. An assumption which may be made with respect to involvement of territorial residents in pipeline activities is that the most active government assistance programs relating to employment of local residents will be those concerned with native persons. This will be necessary because there are a number of circumstances mitigating against sustained direct involvement on the part of large numbers of local native residents in pipeline construction, particularly in the early stages, not the least of which are simple laws of demand and supply.

Volume 6 of the study contains information on the population with emphasis on the native population, of the Mackenzie Impact Corridor. This volume provides sufficient information on the local population to enable both policy makers and program managers (responsible for assisting local residents considering taking pipeline and related work) to have as much information as possible before making definite decisions concerning involvement of the local, and total northern native population. This basic information has also been used in other parts of the total impact study. The terms of reference for the impact study include analysis and consideration of effects and impacts on the population of pipeline construction, operation and maintenance.

The information has been arranged to give, first, a basic background picture of the population, then to project to what extent the local population can and will participate directly or indirectly in pipeline projects. The recently announced Mackenzie Highway construction program will have significant impact on the Mackenzie Valley population, as will

the completed highway (possibly more significant than the Mackenzie pipeline). It is hoped, therefore, that although Volume 6 is intended specifically for use in regard to pipelines it will be equally useful in consideration of highway construction-related and other economic development programs for involvement of local people in what has been designated as the Mackenzie Impact Corridor.



## PART 1

Non-Pipeline Population, Labour Force





## Part 1

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## CHAPTER 1

INTRODUCTIONPurpose and Approach

The purpose of Volume 6 is to provide basic information on the population and labour force of the Mackenzie Valley Impact Corridor. Throughout Volume 6, emphasis is placed on examination of the native population<sup>1/</sup> since it is here that efforts will be required to achieve maximum participation in pipeline work.

Part 1 provides a comprehensive compilation of information on the population and labour force of the Impact Corridor for base year 1970 only, and does not attempt to project population or labour force growth beyond the base year.<sup>2/</sup> Much of the information is presented in a data-by-settlement format for those settlements within the Corridor. Although primary attention is given to the native population, some comparisons are made between the native and other population groups of the corridor, and also between the corridor native population and the native population of the remainder of the Northwest Territories.

The detailed presentation of Part 1 is necessary when it is assumed that much of the local resident labour force available to work on the pipeline will come from the immediate corridor region. Furthermore, it has been assumed that the material contained in Volume 6 will be required for a variety of purposes by a large number of readers. Therefore, a somewhat statistical approach, in the form of data tabulations has been taken. The population is studied in terms of its demographic characteristics, economic activities and income sources. The labour force components, particularly of the native population, is also given close attention, and is analyzed in terms of skill levels, occupations, employment and associated aspects.

A number of statistical tabulations have been prepared; summary tables appear in the body of the report, supported by rather more detailed and comprehensive tabulations attached as appendices.

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<sup>1/</sup> Although the native or indigenous population of the Mackenzie Valley is made up of three separate ethnic origins - Indian, Eskimo and Métis - for purposes of the impact study these have been grouped under the heading of "native", while all non-native (origin) persons have been grouped under the heading of "non-native".

<sup>2/</sup> The analysis presented in Volume 6, and data on which it is based, are used to predict the course of development and activities and effects of pipeline construction and operation in Volume 7. Therefore, no attempt is made in Volume 6 to project population or labour force growth beyond the base year of 1970.

## Sources of Data

Researchers and government policy makers have long had difficulties in obtaining reliable and current population data for the North. Statistics Canada census data have not been adequate for a variety of reasons, insufficiency and out-datedness being the chief draw-backs.

In an effort to overcome the serious problem of lack of useful data for use by policy makers, researchers and administrators, the Department of Indian Affairs and Northern Development inaugurated a northern manpower survey program in 1967 with a test survey in the Great Slave Lake region (Economic Staff Group, 1967). Following extensive program development resulting from the Economic Staff Group test survey, the formal survey program was begun in the Keewatin Region in January, 1969 (Economic Staff Group, 1969). The survey was designed to provide basic demographic data and detailed information on education, work history, skill levels and income of northern residents. Four separate surveys were made in the Northwest Territories, each one covering a single region, and all using the same questionnaire and data processing techniques. The first three surveys covered the predominantly Eskimo-populated Eastern and Central Arctic Regions. The fourth and final survey, the Mackenzie Manpower Survey, was conducted in November-December, 1970, covering the 12-month period October 1, 1969 to September 30, 1970. This survey differed from the others in that it was intended to cover the entire population of the Mackenzie District, i.e., not just the Eskimo or native population: this survey provides the primary source of data for the population and labour force analysis presented in Volume 6.

### Qualifications of the Mackenzie Manpower Survey

There are, however, several short-comings to this survey which influence the utility of the data. Because the first surveys covered only the Eskimo population, and because there were detailed records readily available to the survey program directors, most of the data on the Eastern Arctic and Central Arctic Eskimos were obtained from records and from knowledgeable informants in the individual settlements, rather than directly from the people themselves. In the case of the Mackenzie Manpower Survey, however, the size and diversity of the population made it necessary to conduct personal interviews. Many people were overlooked, and many refused to give complete information. Many replies were tabulated as "not specified", for people did not remember details. The team conducting the Mackenzie Manpower Survey was also faced with a lack of control data against which to compare survey coverage in any given settlement with some sort of master list of residents.

Table 1

## COVERAGE OF THE POPULATION IN THE SETTLEMENTS OF THE MACKENZIE DISTRICT, N.W.T.

BY THE D.I.A.N.D., MACKENZIE MANPOWER SURVEY

| Impact Corridor                 | Manpower Survey Coverage<br>November, 1970 <u>1/</u> |                                   | Estimates by N.W.T.<br>Gov't November, 1970 <u>2/</u> |                     | Percentage Coverage<br>by Manpower Survey |                     |
|---------------------------------|--|-----------------------------------|---|---------------------|---|---------------------|
|                                 | Total<br>Native<br>Population                        | Total<br>Non-Native<br>Population | Total<br>Native                                       | Total<br>Non-Native | Total<br>Native                           | Total<br>Non-Native |
| <u>Lower Mackenzie Region</u>   |  |                                   |   |                     |   |                     |
| Inuvik                          | 662  | 804                               | 1,466   | 800                 | 1,900                                     | 2,700               |
| Aklavik                         | 576  | 63                                | 639   | 450                 | 200                                       | 650                 |
| Ft. McPherson                   | 555  | 29                                | 584   | 780                 | 60  | 840                 |
| Arctic Red River                | 95   | 1                                 | 96  | 80                  | 10  | 90                  |
| Tuktoyaktuk <u>5/</u>           | 497  | -                                 | 497   | 570                 | 40  | 610                 |
| Total Region                    | 2,385  | 897                               | 3,282   | 2,680               | 2,210                                     | 4,890               |
| <u>Central Mackenzie Region</u> |  |                                   |   |                     |   |                     |
| Norman Wells <u>6/</u>          | 1  | 100                               | 101   | 20                  | 270                                       | 290                 |
| Colville Lake                   | 51   | -                                 | 51  | 65                  | 5   | 70                  |
| Ft. Franklin                    | 333  | 49                                | 382   | 275                 | 25  | 300                 |
| Ft. Good Hope                   | 253  | 21                                | 274   | 330                 | 20  | 350                 |
| Ft. Norman                      | 199  | 35                                | 234   | 275                 | 25  | 300                 |
| Total Region                    | 837  | 205                               | 1,042   | 965                 | 345                                       | 1,310               |
| <u>Upper Mackenzie Region</u>   |  |                                   |   |                     |   |                     |
| Ft. Simpson                     | 389  | 115                               | 504   | 300                 | 450                                       | 750                 |
| Ft. Liard                       | 237  | 15                                | 252   | 230                 | 30  | 260                 |
| Ft. Providence <u>5/</u>        | 290  | 4                                 | 294   | 350                 | 200                                       | 550                 |
| Ft. Wrigley                     | 133  | 21                                | 154   | 145                 | 30  | 175                 |
| Jean Marie River                | 50   | -                                 | 50  | 45                  | 5   | 50                  |
| Nahanni Butte                   | 44   | -                                 | 44  | 60                  | 5   | 65                  |
| Trout Lake                      | 40   | -                                 | 40  | 40                  | -   | 40                  |
| Hay River                       | 403  | 1,003                             | 1,406   | 700                 | 2,300                                     | 3,000               |
| Total Region                    | 1,586  | 1,158                             | 2,744   | 1,870               | 3,020                                     | 4,890               |
| Total Impact Corridor           | 4,808  | 2,260                             | 7,068   | 5,515               | 5,575                                     | 11,090              |



Table 1 (cont'd)

|                                   | Manpower Survey Coverage<br>November, 1970 1/ |               |        | Estimates by N.W.T.<br>Gov't November, 1970 2/ |               |        | Percentage Coverage<br>by Manpower Survey |                     |
|-----------------------------------|---|---------------|--------|--|---------------|--------|---|---------------------|
|                                   | Native 3/                                     | Non-Native 5/ | Total  | Native 4/                                      | Non-Native 5/ | Total  | Native                                    | Non-Native 5/ Total |
| <u>Rest of Mackenzie District</u> |   |               |        |  |               |        |   |                     |
| Echo Bay                          | 4   | 85            | 89     | -  | 100           | 100    | 100                                       | 85 88               |
| Enterprise                        | 2   | 53            | 55     | 5  | 45            | 50     | 40  | 100 100             |
| Fort Resolution                   | 533   | 65            | 598    | 580  | 100           | 680    | 91  | 65 88               |
| Fort Smith                        | 814   | 1,120         | 1,934  | 500  | 2,000         | 2,500  | 100                                       | 56 78               |
| Kakisa Lake                       | 34  | -             | 34     | 45   | -             | 45     | 75  | 100 75              |
| Lac La Martre                     | 167   | -             | 167    | 165  | 5             | 170    | 100                                       | - 98                |
| Paulatuk                          | 75  | -             | 75     | 60   | 1             | 61     | 100                                       | - 100               |
| Pine Point                        | 116   | 768           | 884    | 100  | 1,100         | 1,200  | 100                                       | 70 73               |
| Rae                               | 796   | 15            | 811    | 1,050  | 100           | 1,150  | 76  | 15 71               |
| Rae Lakes                         | 66  | -             | 66     | 40   | -             | 40     | 100                                       | 100 100             |
| Sachs Harbour                     | 107   | 11            | 118    | 120  | 10            | 130    | 89  | 100 90              |
| Snare Lake                        | 21  | -             | 21     | 10   | -             | 10     | 150                                       | 100 100             |
| Snowdrift 6/                      | 188   | -             | 188    | 210  | 10            | 220    | 89  | - 85                |
| Tungsten 6/                       | -   | -             | -      | 20   | 230           | 250    | -   | - -                 |
| Yellowknife                       | 527   | 3,667         | 4,194  | 500  | 6,000         | 6,500  | 100                                       | 62 64               |
| Yellowknife Village               | 101   | -             | 101    | 130  | -             | 130    | 78  | 100 78              |
| Total Mackenzie District          | 3,551   | 5,784         | 9,335  | 3,535  | 9,701         | 13,236 | 100                                       | 60 71               |
|                                   | 8,359   | 8,044         | 16,403 | 9,050  | 15,276        | 24,326 | 92  | 53 67               |

1/ Mackenzie Manpower Survey field work done October/November, 1970, survey reference period is October 1, 1969 - September 30, 1970.

2/ Source: N.W.T. Dept. of Local Government, Yellowknife, N.W.T.

3/ Métis population included.

4/ No information available as to where Métis included.

5/ Low or nil response in non-natives derives from refusal to answer.

6/ Questionnaires lost in mailing.

The sole control for the Mackenzie Manpower Survey, against which the survey coverage could be compared, consisted of settlement population figures prepared by the Northwest Territories Government Department of Local Government in November, 1970. Although no information is available on methods used to obtain these population counts, they are the only figures available with which to compare the Mackenzie Manpower Survey's population results.

Table 1 contains the comparison of the survey results with the population count of November, 1970 made by the Northwest Territorial Government.

The Manpower Survey of the Mackenzie Impact Corridor covered 87 per cent of the native population, 41 per cent of non-native<sup>1/</sup> population for an overall total coverage of 64 per cent. Manpower survey coverage was consistently low for the non-native population group throughout the whole of the Mackenzie. Within the Impact Corridor, the major settlements with the poorest coverage of non-natives were Tuktoyaktuk and Fort Providence where outright refusals to participate in the survey occurred, largely by territorial and federal government employees, and resulted in the low rate of response.

Because questionnaires were lost in the mail, there is no data on the native population of Norman Wells, (a direct impact settlement), and a low rate of return on the non-native population of the settlement.

Because of the unfortunately low coverage of non-natives by the Mackenzie Manpower Survey, it has been necessary to circumvent the problem in a number of ways. Volume 6, for example, examines in some detail the population of the Mackenzie Impact Corridor, but it has not been possible to present as thorough a comparison between the native and non-native groups as would be desirable. For Volume 7, which gives population and labour force projections for various phases or periods of the overall pipeline construction program, it has been necessary to develop an estimated population figure for the non-native population in the Impact Corridor. However, insufficient data were available to allow estimations by age groups or by individual settlement within the corridor.

The low rate of response for the non-native group in the Mackenzie Manpower Survey also created difficulties in the economic base analysis and cost-benefit and impact multiplier analyses contained in Volume 7. These difficulties arose partly from the high rate of refusal by non-natives to participate in the survey and to some extent from neglect by many participants to respond to questions on income sources, amounts, employers, type of work and other related information.

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<sup>1/</sup> Non-native - anyone not of Indian, Eskimo or Métis origin.

Therefore, although 41 per cent of the total non-native population of the corridor is reported as having been covered<sup>1/</sup>, in fact coverage on those items just mentioned is much lower.

The Mackenzie Manpower survey achieved an estimated 87 per cent coverage of the corridor native population. Of the 13 per cent not covered, some refused to participate in the survey, others were missed, (usually through being absent from the settlements at the time of the survey). Still other information on natives was inadvertently lost, for example, Norman Wells. The most important single failure of the Mackenzie Manpower Survey occurred in the area of information on hunting, trapping and fishing activities. As indicated in Volume 5, the Mackenzie Manpower Survey is estimated to have covered only about one-third of those natives who actively pursued traditional activities. It has been necessary, therefore to seek other sources, such as the N.W.T. Fur Traders Record Books, to obtain information on the significance of hunting and trapping as sources of income. Another serious information gap occurred through the survey's failure to obtain first-hand information on income from social welfare programs. This problem has been partially overcome by obtaining material for the same period from the Government of the N.W.T. reflecting total figures by program on a settlement-by-settlement basis.

The Mackenzie Manpower Survey, despite its drawbacks, still provides the best available, indeed the only available, sources of data for analyzing the population and labour force presented in this and other volumes of the impact study. Unless otherwise specified, therefore, the Mackenzie Manpower Survey is the primary source of data for the material on the corridor population and labour force presented in Volume 6.

The survey must at all times be regarded as providing a picture based on a sample survey. As noted above, only 41 per cent of the non-native population group of the corridor was covered by the survey, a factor of which readers must be aware throughout Volume 6. Nevertheless, it has been deemed sufficiently important to use the data on non-natives, despite the limited sample, in order to give some indication of the relative positions of the two population groups in the economy of the Impact Corridor. A coverage of 87 per cent of the corridor native population has been considered sufficiently high to permit as detailed as possible an analysis of the various characteristics of the native group.

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<sup>1/</sup> Many non-natives answered only sufficient questions on the questionnaire to allow them to be tabulated in the basic demographic tables; substantial numbers of non-native persons answered all questions except those on income. The variations were numerous and resulted in much information being lost.



Table 2

PERCENTAGE BREAKDOWN OF THE ETHNIC ORIGIN OF THE NATIVE POPULATION  
OF THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

|                                 | <u>Treaty<br/>Indian</u> | <u>Non-<br/>Treaty<br/>Indian</u> | <u>Total<br/>Indian<br/>Population</u> | <u>Eskimo</u> | <u>Métis</u> |
|---------------------------------|--------------------------|-----------------------------------|--|---------------|--------------|
|                                 | Per-<br>cent             | Per-<br>cent                      | Per-<br>cent                           | Per-<br>cent  | Per-<br>cent |
| <u>Lower Mackenzie Region</u>   |                          |                                   |  |               |              |
| Inuvik                          | 10.6                     | 2.4                               | 13.0                                   | 80.2          | 6.8          |
| Aklavik                         | 23.9                     | 0.2                               | 24.1                                   | 56.3          | 19.6         |
| Ft. McPherson                   | 87.2                     | 2.3                               | 89.5                                   | 1.8           | 8.7          |
| Arctic Red River                | 81.0                     | 1.1                               | 82.1                                   | -             | 17.9         |
| Tuktoyaktuk                     | 2.2                      | 0.2                               | 2.4                                    | 97.6          | 9.4          |
| Total Region                    | 32.7                     | 1.3                               | 34.0                                   | 56.6          | 9.4          |
| <u>Central Mackenzie Region</u> |                          |                                   |  |               |              |
| Norman Wells                    | N/Av                     | N/Av                              | N/Av                                   | N/Av          | N/Av         |
| Colville Lake                   | 94.1                     | 2.0                               | 96.1                                   | -             | 3.9          |
| Ft. Franklin                    | 94.6                     | 2.4                               | 97.0                                   | -             | 3.0          |
| Ft. Good Hope                   | 81.4                     | 13.5                              | 94.9                                   | -             | 5.1          |
| Ft. Norman                      | 69.3                     | 13.6                              | 82.9                                   | -             | 17.1         |
| Total Region                    | 84.5                     | 8.3                               | 92.8                                   | -             | 7.2          |
| <u>Upper Mackenzie Region</u>   |                          |                                   |  |               |              |
| Ft. Simpson                     | 86.6                     | 5.4                               | 92.0                                   | 0.5           | 7.5          |
| Ft. Liard                       | 94.9                     | 0.9                               | 95.8                                   | -             | 4.2          |
| Ft. Providence                  | 96.9                     | 2.8                               | 99.7                                   | -             | 0.3          |
| Ft. Wrigley                     | 100.0                    | -                                 | 100.0                                  | -             | -            |
| Jean Marie River                | 98.0                     | -                                 | 98.0                                   | -             | 2.0          |
| Nahanni Butte                   | 100.0                    | -                                 | 100.0                                  | -             | -            |
| Trout Lake                      | 100.0                    | -                                 | 100.0                                  | -             | -            |
| Hay River                       | 44.1                     | 10.7                              | 54.8                                   | -             | 45.2         |
| Total Region                    | 81.1                     | 4.7                               | 85.8                                   | 0.1           | 14.1         |
| <u>Total Impact Corridor</u>    | 57.7                     | 3.7                               | 61.4                                   | 28.1          | 10.5         |

Source: DIAND, Mackenzie Manpower Survey, October 1, 1969 -  
September 30, 1970, Table 1.



## CHAPTER 2

THE POPULATION<sup>1/</sup> OF THE IMPACT CORRIDOREthnic Origin<sup>2/</sup>

The Mackenzie District of the Northwest Territories has an ethnically heterogeneous population, particularly within the native group. The native population of the Mackenzie Pipeline Impact Corridor is comprised of Indian, Eskimo and Métis elements of whom persons of Indian origin form the majority. (See Table 2 and Appendix 1).

Possibly significant to the schedule for pipeline construction, in view of the possible emergence of the land rights<sup>3/</sup> settlement question, is the high representation of Treaty Indians in the corridor. Treaty Indians form 58 per cent of the total native population of the corridor; 94 per cent of the total corridor Indian population, according to the Mackenzie Manpower survey which is estimated to have covered 87 per cent of the corridor native population.

The non-native population group forms 32 per cent of the total corridor population covered by the Mackenzie Manpower Survey.<sup>4/</sup> The largest concentrations of this group are in Inuvik and Hay River.

Age Structure

The native population of the Impact Corridor is a relatively young population, with 46 per cent under 14 years of age as compared to 37 per cent for non-natives. The relative positions of the two populations by age-group break-downs are presented, as absolute numbers, in Tables 3 and 4, with the percentage summary given in Table 5. Within the corridor as a whole, the largest proportion of the native population is in the 0 - 13 years age group, but that concentration, largest proportion for the non-natives is in the 14 - 44 age group; this latter age-group is usually defined as the prime labour force group. (See also Appendix 2 which presents a detailed break-down by four-year age groups, and by sex, settlement and region within the corridor for natives and non-natives, as shown by the Mackenzie Manpower Survey.)

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<sup>1/</sup> For purposes of the impact study, groups have been identified as "native" and "non-native" populations. Information on non-natives, although only 41 per cent sample for the corridor, has been included for comparison.

<sup>2/</sup> In the Mackenzie Manpower Survey, each person surveyed declared his/her own ethnic status.

<sup>3/</sup> Settlement of possible land claims under Treaties 8 and 11.

<sup>4/</sup> An estimate of the total corridor non-native population has been made for purposes of analysis carried out in Volume 7. This figure, 4,520, would mean that non-natives would form 48 per cent of the total corridor population. Boosting the native population by 13 per cent, to include the estimated numbers of persons missed by the Mackenzie Manpower Survey would give a total native population of 5,435. On this basis, the native component forms 55 per cent of the total population, the non-native group 45 per cent.



Table 3  
1/SUMMARY OF AGE DISTRIBUTION OF NATIVE POPULATION IN SETTLEMENTS OF MACKENZIE  
IMPACT CORRIDOR, N.W.T.

|                                 | Male            |                  |                      | Female |                 |                  |                      |       |
|---------------------------------|-----------------|------------------|----------------------|--------|-----------------|------------------|----------------------|-------|
|                                 | 0 - 13<br>years | 14 - 44<br>years | 45 years<br>and over | Total  | 0 - 13<br>years | 14 - 44<br>years | 45 years<br>and over | Total |
| <u>Lower Mackenzie Region</u>   |                 |                  |                      |        |                 |                  |                      |       |
| Inuvik                          | 150             | 141              | 30                   | 321    | 162             | 142              | 37                   | 341   |
| Aklavik                         | 147             | 104              | 35                   | 286    | 137             | 114              | 39                   | 290   |
| Ft. McPherson                   | 120             | 110              | 39                   | 269    | 130             | 115              | 41                   | 286   |
| Arctic Red River                | 17              | 25               | 11                   | 53     | 14              | 19               | 9                    | 42    |
| Tuktoyaktuk                     | 125             | 106              | 36                   | 267    | 112             | 86               | 32                   | 230   |
| Total Region                    | 559             | 486              | 151                  | 1,196  | 555             | 476              | 158                  | 1,189 |
| <u>Central Mackenzie Region</u> |                 |                  |                      |        |                 |                  |                      |       |
| Norman Wells                    | N/Av            | N/Av             | N/Av                 | N/Av   | N/Av            | N/Av             | N/Av                 | N/Av  |
| Colville Lake                   | 6               | 13               | 8                    | 27     | 5               | 12               | 7                    | 24    |
| Ft. Franklin                    | 80              | 63               | 27                   | 170    | 80              | 62               | 21                   | 163   |
| Ft. Good Hope                   | 51              | 48               | 26                   | 125    | 58              | 48               | 22                   | 128   |
| Ft. Norman                      | 44              | 44               | 17                   | 105    | 40              | 38               | 16                   | 94    |
| Total Region                    | 181             | 168              | 78                   | 427    | 183             | 160              | 66                   | 409   |
| <u>Upper Mackenzie Region</u>   |                 |                  |                      |        |                 |                  |                      |       |
| Ft. Simpson                     | 88              | 78               | 32                   | 198    | 92              | 73               | 26                   | 191   |
| Ft. Liard                       | 56              | 61               | 20                   | 137    | 50              | 35               | 15                   | 100   |
| Ft. Providence                  | 76              | 49               | 26                   | 151    | 68              | 49               | 22                   | 139   |
| Ft. Wrigley                     | 21              | 27               | 21                   | 69     | 27              | 27               | 10                   | 64    |
| Jean Marie River                | 10              | 9                | 6                    | 25     | 12              | 10               | 3                    | 25    |
| Nahanni Butte                   | 6               | 9                | 7                    | 22     | 12              | 6                | 4                    | 22    |
| Trout Lake                      | 7               | 10               | 2                    | 19     | 10              | 7                | 4                    | 21    |
| Hay River                       | 89              | 86               | 39                   | 214    | 93              | 69               | 27                   | 189   |
| Total Region                    | 353             | 329              | 153                  | 835    | 364             | 276              | 111                  | 751   |
| Total Impact Corridor           | 1,093           | 983              | 382                  | 2,458  | 1,102           | 912              | 335                  | 2,349 |

1/ Based on 87 percent sample of corridor native population.

Source: DIAND, Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 1.

Table 4

1/

SUMMARY OF AGE DISTRIBUTION OF THE NON-NATIVE POPULATION IN SETTLEMENTS OF THE  
MACKENZIE IMPACT CORRIDOR, N.W.T.

|                                 | Male            |                  |                      | Female          |                  |                      |
|---------------------------------|-----------------|------------------|----------------------|-----------------|------------------|----------------------|
|                                 | 0 - 13<br>years | 14 - 44<br>years | 45 years<br>and over | 0 - 13<br>years | 14 - 44<br>years | 45 years<br>and over |
|                                 |                 |                  |                      |                 |                  | Total                |
| <u>Lower Mackenzie Region</u>   |                 |                  |                      |                 |                  |                      |
| Inuvik                          | 161             | 218              | 48                   | 135             | 199              | 43                   |
| Aklavik                         | 10              | 16               | 12                   | 4               | 15               | 6                    |
| Fort McPherson                  | 7               | 7                | 1                    | 2               | 10               | 2                    |
| Arctic Red River                | N/Av            | N/Av             | N/Av                 | N/Av            | N/Av             | N/Av                 |
| Tuktoyaktuk                     | N/Av            | N/Av             | N/Av                 | N/Av            | N/Av             | N/Av                 |
| Total Region                    | 178             | 241              | 61                   | 141             | 224              | 51                   |
| <u>Central Mackenzie Region</u> |                 |                  |                      |                 |                  |                      |
| Norman Wells                    | 26              | 24               | 8                    | 14              | 23               | 5                    |
| Colville Lake                   | N/Av            | N/Av             | N/Av                 | N/Av            | N/Av             | N/Av                 |
| Fort Franklin                   | 12              | 13               | 2                    | 9               | 13               | -                    |
| Fort Good Hope                  | 2               | 6                | 1                    | 5               | 6                | 1                    |
| Fort Norman                     | 9               | 9                | 3                    | 6               | 6                | 2                    |
| Total Region                    | 49              | 52               | 14                   | 34              | 48               | 8                    |
| <u>Upper Mackenzie Region</u>   |                 |                  |                      |                 |                  |                      |
| Fort Simpson                    | 27              | 28               | 3                    | 22              | 24               | 11                   |
| Fort Liard                      | 5               | 4                | 1                    | 1               | 4                | 0                    |
| Fort Providence                 | N/Av            | N/Av             | N/Av                 | N/Av            | N/Av             | N/Av                 |
| Fort Wrigley                    | 5               | 5                | -                    | 7               | 4                | -                    |
| Jean Marie River                | -               | -                | -                    | -               | -                | -                    |
| Nahanni Butte                   | -               | -                | -                    | -               | -                | -                    |
| Trout Lake                      | -               | -                | -                    | -               | -                | -                    |
| Hay River                       | 191             | 255              | 73                   | 172             | 258              | 54                   |
| Total Region                    | 228             | 292              | 77                   | 202             | 290              | 65                   |
| Total Impact Corridor           | 455             | 585              | 152                  | 377             | 562              | 124                  |
|                                 |                 |                  |                      |                 |                  | 1,063                |

1/ Based on 41 percent sample coverage of non-native corridor population.

Source: DIAND, Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 1.

PERCENTAGE AGE DISTRIBUTION OF THE POPULATION GROUPS IN SETTLEMENTS OF THE MACKENZIE  
IMPACT CORRIDOR, N.W.T.

|                                 | Native Population <sup>1/</sup> |                             |                                 | Non-Native Population <sup>2/</sup> |                             |                                 |
|---------------------------------|---------------------------------|-----------------------------|---------------------------------|-------------------------------------|-----------------------------|---------------------------------|
|                                 | 0 - 13<br>years<br>percent      | 14 - 44<br>years<br>percent | 45 years<br>and over<br>percent | 0 - 13<br>years<br>percent          | 14 - 44<br>years<br>percent | 45 years<br>and over<br>percent |
| <u>Lower Mackenzie Region</u>   |                                 |                             |                                 |                                     |                             |                                 |
| Inuvik                          | 47                              | 43                          | 10                              | 37                                  | 52                          | 11                              |
| Aklavik                         | 49                              | 38                          | 13                              | 22                                  | 49                          | 29                              |
| Ft. McPherson                   | 45                              | 41                          | 14                              | 31                                  | 59                          | 10                              |
| Arctic Red River                | 33                              | 46                          | 21                              | N/Av                                | N/Av                        | N/Av                            |
| Tuktoyaktuk                     | 48                              | 38                          | 14                              | N/Av                                | N/Av                        | N/Av                            |
| Total Region                    | 47                              | 40                          | 13                              | 36                                  | 52                          | 12                              |
| <u>Central Mackenzie Region</u> |                                 |                             |                                 |                                     |                             |                                 |
| Norman Wells                    | N/Av                            | N/Av                        | N/Av                            | 40                                  | 47                          | 13                              |
| Colville Lake                   | 22                              | 49                          | 29                              | N/Av                                | N/Av                        | N/Av                            |
| Ft. Franklin                    | 48                              | 38                          | 14                              | 43                                  | 53                          | 4                               |
| Ft. Good Hope                   | 43                              | 38                          | 19                              | 33                                  | 57                          | 10                              |
| Ft. Norman                      | 42                              | 41                          | 17                              | 43                                  | 43                          | 14                              |
| Total Region                    | 44                              | 39                          | 17                              | 40                                  | 49                          | 11                              |
| <u>Upper Mackenzie Region</u>   |                                 |                             |                                 |                                     |                             |                                 |
| Ft. Simpson                     | 46                              | 39                          | 15                              | 43                                  | 45                          | 12                              |
| Ft. Liard                       | 45                              | 40                          | 15                              | 40                                  | 53                          | 7                               |
| Ft. Providence                  | 50                              | 34                          | 16                              | N/Av                                | N/Av                        | N/Av                            |
| Ft. Wrigley                     | 36                              | 41                          | 23                              | 57                                  | 43                          | -                               |
| Jean Marie River                | 44                              | 38                          | 18                              | -                                   | -                           | -                               |
| Nahanni Butte                   | 41                              | 34                          | 25                              | -                                   | -                           | -                               |
| Trout Lake                      | 42                              | 42                          | 15                              | -                                   | -                           | -                               |
| Hay River                       | 45                              | 39                          | 16                              | 36                                  | 51                          | 13                              |
| Total Region                    | 45                              | 38                          | 17                              | 37                                  | 50                          | 13                              |
| Total Impact Corridor           | 46                              | 39                          | 15                              | 37                                  | 57                          | 12                              |

<sup>1/</sup> Based on sample coverage of 87 percent of native population of corridor.

<sup>2/</sup> Based on sample coverage of 41 percent of non-native population of corridor.

Source: DIAND, Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 1.



Table 6

DISTRIBUTION OF NATIVE AND NON-NATIVE FAMILIES BY SIZE IN SETTLEMENTS OF THE  
MACKENZIE IMPACT CORRIDOR, N.W.T.

|                                 | <u>Native</u> |            |            |              | <u>Non-Native</u> <sup>1/</sup> |            |            |              |
|---------------------------------|---------------|------------|------------|--------------|---------------------------------|------------|------------|--------------|
|                                 | Family Size   |            |            |              | Family Size                     |            |            |              |
| <u>Lower Mackenzie Region</u>   | <u>1</u>      | <u>2-5</u> | <u>6 +</u> | <u>Total</u> | <u>1</u>                        | <u>2-5</u> | <u>6 +</u> | <u>Total</u> |
| Inuvik                          | 42            | 33         | 56         | 131          | 133                             | 129        | 34         | 296          |
| Aklavik                         | 20            | 41         | 45         | 106          | 12                              | 15         | 2          | 29           |
| Ft. McPherson                   | 70            | 56         | 39         | 165          | 11                              | 4          | 1          | 16           |
| Arctic Red River                | 18            | 15         | 4          | 37           | N/Av                            | N/Av       | N/Av       | N/Av         |
| Tuktoyaktuk                     | 13            | 33         | 44         | 90           | N/Av                            | N/Av       | N/Av       | N/Av         |
| Total Region                    | 163           | 178        | 188        | 529          | 156                             | 148        | 37         | 341          |
| <u>Central Mackenzie Region</u> |               |            |            |              |                                 |            |            |              |
| Norman Wells                    | N/Av          | N/Av       | N/Av       | N/Av         | 10                              | 23         | 2          | 35           |
| Colville Lake                   | 3             | 13         | 1          | 17           | N/Av                            | N/Av       | N/Av       | N/Av         |
| Ft. Franklin                    | 4             | 18         | 33         | 55           | 9                               | 5          | 3          | 17           |
| Ft. Good Hope                   | 27            | 31         | 17         | 75           | 5                               | 5          | -          | 10           |
| Ft. Norman                      | 11            | 20         | 15         | 46           | 3                               | 7          | 1          | 11           |
| Total Region                    | 45            | 82         | 66         | 193          | 27                              | 40         | 6          | 73           |
| <u>Upper Mackenzie Region</u>   |               |            |            |              |                                 |            |            |              |
| Ft. Simpson                     | 51            | 41         | 23         | 115          | 10                              | 21         | 6          | 37           |
| Ft. Liard                       | 26            | 25         | 15         | 66           | -                               | 3          | 2          | 5            |
| Ft. Providence                  | 26            | 33         | 19         | 78           | N/Av                            | N/Av       | N/Av       | N/Av         |
| Ft. Wrigley                     | 27            | 11         | 8          | 46           | 1                               | 2          | 2          | 5            |
| Jean Marie River                | 3             | 2          | 5          | 10           | -                               | -          | -          | -            |
| Nahanni Butte                   | 2             | 6          | 2          | 10           | -                               | -          | -          | -            |
| Trout Lake                      | 3             | 5          | 2          | 10           | -                               | -          | -          | -            |
| Hay River                       | 26            | 41         | 24         | 91           | 95                              | 196        | 40         | 331          |
| Total Region                    | 164           | 164        | 98         | 426          | 106                             | 222        | 50         | 378          |
| <u>Total Impact Corridor</u>    | 372           | 424        | 352        | 1,148        | 289                             | 410        | 93         | 792          |

<sup>1/</sup> Based on the 41 percent sample of non-natives in Manpower Survey.

Source: DIAND, Mackenzie Manpower Survey, October 1, 1969 -  
September 30, 1970, Table 5.

### Family Structure

There are fairly marked differences between the two groups in terms of family size. Table 6 shows that the most noticeable difference occurs in the numbers of families of six or more persons, 12 per cent for non-natives as compared to 31 per cent for natives. The numbers of natives having large families becomes important in the light of possible planned movement of native families to places of work away from their home settlements. However, it is somewhat surprising to note the relatively small difference between the two groups in the number of single-person families (i.e., single persons living alone in homes, apartments or hostels). It is generally assumed that a large number of non-natives would be single, essentially transients. In the Impact Corridor, however, 32 per cent of the native family groups are single-person units as compared to 36 per cent for the non-native group. In contrast, in the Keewatin Region, families of two or less persons made up only 17 per cent of the native (Eskimo) population (Preston, 1969: 3, 5). A tabulation of family sizes by individual corridor settlement is given in Appendix 3.

### Basic Education

Over the past two decades, programs for increased participation in the skilled labour force by northern native residents have been hampered because of a generally low level of basic education. Many northern native residents, particularly in the Central and Eastern Arctic, had never been to school; many were unable to speak English, or had only a rudimentary command of the language, insufficient to permit them to develop skills beyond those of a general labourer. Within the Mackenzie Valley, however, the native population generally (particularly in the Upper and Lower Mackenzie Impact Regions) had more contact with non-native residents, with schools and with wage employment situations. As a result, general skill levels among the Valley native population are generally higher than among the predominantly Eskimo population of the central and eastern N.W.T.

Nevertheless, the basic formal education level for the native group of the Impact Corridor is relatively low. In order to increase their participation in the highly skilled labour force, many more native people will have to secure additional education and training. Although relevant work experience will be the criterion for general pipeline construction work, deficient basic education will restrict native workers' opportunities to obtain jobs in the highly skilled aspects of pipeline construction, operation and maintenance.

Table 7 and 8 summarize the levels of basic education of the native and non-native groups in the Impact Corridor. The native population is essentially poorly educated. For example, 37 per cent of the native population aged 14 years and over had never attended school, compared to only three per cent of the non-native group.

Completion of grade 10 is the minimum requirement for entrance to many types of trades training courses. Completion of each year beyond grade 10 permits access to increasingly higher levels of formal trades and other types of training. Only four per cent of the corridor native population aged 14 years and over had completed school beyond grade 10 to 13, as compared to 70 per cent of the non-native population (Tables 7, 8). Only five per cent of the native population had completed grade 10 or 11, only two per cent had gone as high as grade 12 or 13. In sharp contrast, 42 per cent of the non-native population had grade 10 or 11, 52 per cent had grade 12 or 13.<sup>1/</sup>

It is interesting to note that educational background is the first instance of significant regional differences in characteristics of the native population of the Impact Corridor. In the Lower Mackenzie Region, nine per cent of the native population 14 years of age and over had completed grade 10 or higher, as compared to six per cent in the Upper Mackenzie Region and only three per cent in the Central Mackenzie Region.

The generally low levels of basic education, coupled with lack of relevant work experience among the native population, could well hinder plans to insist on high participation of natives, at least in the initial stages of direct pipeline construction work. As is evident in Chapter 5 in which the qualifications of the corridor native (experienced) labour force are examined, many of them have been able to acquire training only at the level of semi-skilled tradesmen, for example, electrician's helpers. This is particularly true of those persons over 25 years of age. As a result there is a large number of people possibly capable of acquiring jobs in semi-skilled categories, and in activities ancillary to direct pipeline construction, but very few workers will be able to acquire the highly skilled jobs.

### Mobility

The ability and willingness of individual northern natives to relocate to areas of guaranteed employment to jobs has long been a source of difficulty. Many researchers have studied this problem as a socio-logical and cultural one<sup>2/</sup>, hence the subject is not treated in detail here. It should be clear from the amassed experience over 20 years of government administrators in the North that the mobility factor is one which must be given close attention when planning the mass relocation of native workers. Stevenson (1968) studied the problems in relation to movement of Eskimo workers to mining and other jobs both in the North and elsewhere. The chief problems which arise are: fears of unknown

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<sup>1/</sup> In comparison to the Keewatin Eskimo population, however, the native population of the Mackenzie Impact Corridor is more highly educated. In the Keewatin, 55 per cent of the males and 56 per cent of the females 14 years of age and over had attended school; only nine per cent of the total Keewatin Eskimo population had reached Grade 6 or higher (Preston 1969:7).

<sup>2/</sup> See Part 4, Appendix 1.



Table 7

## NATIVE RESIDENTS 14 YEARS OF AGE AND OVER BY HIGHEST GRADE OF ELEMENTARY OR SECONDARY

## SCHOOL COMPLETED FOR SETTLEMENTS OF THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|                          | Male           |      |      |      |       |                 |      |      |      |         | Female         |      |      |      |      |                |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
|--------------------------|----------------|------|------|------|-------|-----------------|------|------|------|---------|----------------|------|------|------|------|----------------|-----|---|-----|---|---------|---|-----|---|-----|-------|-----|---|--|--|
|                          | Never Attended |      |      |      |       | Kind. - Grade 9 |      |      |      |         | Grades 10 - 13 |      |      |      |      | Grades 10 - 13 |     |   |     |   | Unknown |   |     |   |     | Total |     |   |  |  |
|                          | No.            | %    | No.  | %    | Total | No.             | %    | No.  | %    | Unknown | No.            | %    | No.  | %    | No.  | %              | No. | % | No. | % | No.     | % | No. | % | No. | %     | No. | % |  |  |
| <u>Lower Mackenzie</u>   |                |      |      |      |       |                 |      |      |      |         |                |      |      |      |      |                |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Inuvik                   | 33             | 19   | 99   | 58   | 171   | 35              | 20   | 120  | 67   | 15      | 8              | 15   | 8    | 9    | 5    | 179            |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Aklavik                  | 54             | 39   | 75   | 54   | 139   | 43              | 28   | 95   | 62   | 12      | 8              | 12   | 8    | 3    | 2    | 153            |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Ft. McPherson            | 58             | 39   | 80   | 54   | 149   | 59              | 38   | 87   | 56   | 9       | 6              | 9    | 6    | 1    | -    | 156            |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Arctic Red River         | 11             | 30   | 20   | 56   | 36    | 8               | 29   | 12   | 43   | 4       | 14             | 4    | 14   | 4    | 14   | 28             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Tuktoyaktuk              | 46             | 32   | 79   | 56   | 142   | 37              | 31   | 71   | 60   | 10      | 9              | 10   | 9    | -    | -    | 118            |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Total Region             | 202            | 32   | 353  | 55   | 637   | 182             | 29   | 385  | 61   | 50      | 8              | 50   | 8    | 17   | 2    | 634            |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| <u>Central Mackenzie</u> |                |      |      |      |       |                 |      |      |      |         |                |      |      |      |      |                |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Norman Wells             | N/Av           | N/Av | N/Av | N/Av | N/Av  | N/Av            | N/Av | N/Av | N/Av | N/Av    | N/Av           | N/Av | N/Av | N/Av | N/Av | N/Av           |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Colville Lake            | 11             | 52   | 9    | 43   | 21    | 11              | 58   | 8    | 42   | -       | -              | -    | -    | -    | -    | 19             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Ft. Franklin             | 35             | 39   | 46   | 51   | 90    | 32              | 38   | 47   | 57   | 1       | 1              | 1    | 1    | 3    | 4    | 83             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Ft. Good Hope            | 32             | 43   | 32   | 43   | 74    | 31              | 44   | 28   | 40   | 3       | 4              | 3    | 4    | 8    | 11   | 70             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Ft. Norman               | 24             | 39   | 32   | 53   | 61    | 23              | 42   | 29   | 54   | 2       | 4              | 2    | 4    | -    | -    | 54             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Total Region             | 102            | 41   | 119  | 49   | 246   | 97              | 43   | 112  | 49   | 6       | 3              | 6    | 3    | 11   | 5    | 226            |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| <u>Upper Mackenzie</u>   |                |      |      |      |       |                 |      |      |      |         |                |      |      |      |      |                |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Ft. Simpson              | 51             | 46   | 42   | 38   | 110   | 49              | 50   | 41   | 41   | 7       | 7              | 7    | 7    | 2    | 2    | 99             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Ft. Liard                | 51             | 63   | 28   | 35   | 81    | 29              | 58   | 19   | 38   | 2       | 4              | 2    | 4    | -    | -    | 50             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Ft. Providence           | 34             | 45   | 28   | 37   | 75    | 25              | 35   | 41   | 58   | 1       | 1              | 1    | 1    | 4    | 6    | 71             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Ft. Wrigley              | 35             | 73   | 13   | 27   | 48    | 19              | 51   | 18   | 49   | -       | -              | -    | -    | -    | -    | 37             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Jean Marie River         | 7              | 47   | 5    | 53   | 15    | 5               | 38   | 7    | 54   | -       | -              | -    | -    | 1    | 8    | 13             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Nahanni Butte            | 5              | 31   | 8    | 50   | 16    | 5               | 50   | 3    | 30   | -       | -              | -    | -    | 2    | 20   | 10             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Trout Lake               | 5              | 42   | 5    | 42   | 12    | 8               | 73   | 1    | 9    | -       | -              | -    | -    | 2    | 18   | 11             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Hay River                | 32             | 26   | 82   | 66   | 125   | 18              | 19   | 65   | 67   | 11      | 11             | 11   | 11   | 3    | 3    | 96             |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Total Region             | 220            | 46   | 211  | 44   | 482   | 158             | 41   | 195  | 50   | 21      | 5              | 21   | 5    | 14   | 4    | 387            |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Total Impact             | 524            | 38   | 683  | 50   | 1,365 | 437             | 35   | 692  | 55   | 77      | 6              | 77   | 6    | 42   | 3    | 1,247          |     |   |     |   |         |   |     |   |     |       |     |   |  |  |
| Corridor                 |                |      |      |      |       |                 |      |      |      |         |                |      |      |      |      |                |     |   |     |   |         |   |     |   |     |       |     |   |  |  |

Source: DIAND, Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 9.

Table 8

NON-NATIVE RESIDENTS<sup>1/</sup> 14 YEARS OF AGE AND OVER BY HIGHEST GRADE OF ELEMENTARY OR SECONDARY  
SCHOOL COMPLETED FOR SETTLEMENTS OF THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|                       | Male           |         |                 |                | Female        |                |     |                 |                |         |     |               |               |     |     |    |    |     |
|-----------------------|----------------|---------|-----------------|----------------|---------------|----------------|-----|-----------------|----------------|---------|-----|---------------|---------------|-----|-----|----|----|-----|
|                       | Never Attended |         | Kind. - Grade 9 | Grades 10 - 13 |               | Never Attended |     | Kind. - Grade 9 | Grades 10 - 13 |         |     |               |               |     |     |    |    |     |
|                       | No.            | %       |                 | No.            | %             | No.            | %   |                 | No.            | %       |     |               |               |     |     |    |    |     |
|                       | Total          | Unknown | No.             | %              | Total         | Unknown        | No. | %               | Total          | Unknown | No. | %             |               |     |     |    |    |     |
| Lower Mackenzie       |                |         |                 |                |               |                |     |                 |                |         |     |               |               |     |     |    |    |     |
| Inuvik                | 9              | 3       | 58              | 22             | 191           | 72             | 8   | 3               | 266            | 10      | 4   | 59            | 24            | 166 | 69  | 7  | 3  | 242 |
| Aklavik               | 1              | 4       | 4               | 14             | 20            | 71             | 3   | 11              | 28             | 3       | 14  | 4             | 19            | 11  | 52  | 3  | 14 | 21  |
| Ft. McPherson         | -              | -       | -               | -              | 8             | 100            | -   | -               | 8              | 1       | 8   | 1             | 8             | 10  | 84  | -  | -  | 12  |
| Arctic Red River      | Not Available  |         |                 |                | Not Available |                |     |                 | Not Available  |         |     |               | Not Available |     |     |    |    |     |
| Tuktoyaktuk           | Not Available  |         |                 |                | Not Available |                |     |                 | Not Available  |         |     |               | Not Available |     |     |    |    |     |
| Total Region          | 10             | 3       | 62              | 20             | 219           | 73             | 11  | 4               | 302            | 14      | 5   | 64            | 23            | 187 | 68  | 10 | 4  | 275 |
| Central Mackenzie     |                |         |                 |                |               |                |     |                 |                |         |     |               |               |     |     |    |    |     |
| Norman Wells          | -              | -       | 6               | 19             | 26            | 81             | -   | -               | 32             | 1       | 4   | 4             | 14            | 23  | 82  | -  | -  | 28  |
| Colville Lake         | -              | -       | -               | -              | -             | -              | -   | -               | -              | -       | -   | -             | -             | -   | -   | -  | -  | -   |
| Ft. Franklin          | 1              | 7       | 2               | 13             | 12            | 80             | -   | -               | 15             | -       | -   | 4             | 31            | 9   | 69  | -  | -  | 13  |
| Ft. Good Hope         | 1              | 14      | -               | -              | 6             | 86             | -   | -               | 7              | -       | -   | -             | -             | 7   | 100 | -  | -  | 7   |
| Ft. Norman            | -              | -       | 3               | 25             | 9             | 75             | -   | -               | 12             | 1       | 12  | 1             | 12            | 6   | 75  | -  | -  | 8   |
| Total Region          | 2              | 8       | 11              | 17             | 53            | 80             | -   | -               | 66             | 2       | 4   | 9             | 16            | 45  | 80  | -  | -  | 56  |
| Upper Mackenzie       |                |         |                 |                |               |                |     |                 |                |         |     |               |               |     |     |    |    |     |
| Ft. Simpson           | 3              | 10      | 7               | 22             | 21            | 68             | -   | -               | 31             | 4       | 11  | 5             | 14            | 26  | 75  | -  | -  | 35  |
| Ft. Liard             | -              | -       | 2               | 40             | 3             | 60             | -   | -               | 5              | -       | -   | -             | -             | 4   | 100 | -  | -  | 4   |
| Ft. Providence        | -              | -       | Not Available   |                |               |                | -   | -               | -              | -       | -   | Not Available |               |     |     | -  | -  | -   |
| Ft. Wrigley           | -              | -       | -               | -              | 5             | 100            | -   | -               | 5              | -       | -   | 1             | 25            | 3   | 75  | -  | -  | 4   |
| Jean Marie River      | -              | -       | -               | -              | -             | -              | -   | -               | -              | -       | -   | -             | -             | -   | -   | -  | -  | -   |
| Nahanni Butte         | -              | -       | -               | -              | -             | -              | -   | -               | -              | -       | -   | -             | -             | -   | -   | -  | -  | -   |
| Trout Lake            | -              | -       | -               | -              | -             | -              | -   | -               | -              | -       | -   | -             | -             | -   | -   | -  | -  | -   |
| Hay River             | 8              | 2       | 110             | 34             | 206           | 63             | 4   | 1               | 328            | 4       | 1   | 76            | 24            | 230 | 74  | 2  | 1  | 312 |
| Total Region          | 11             | 3       | 119             | 32             | 235           | 64             | 4   | 1               | 369            | 8       | 2   | 82            | 23            | 263 | 74  | 2  | 1  | 355 |
| Total Impact Corridor | 23             | 3       | 192             | 26             | 507           | 69             | 15  | 2               | 737            | 24      | 3   | 155           | 23            | 495 | 72  | 12 | 2  | 686 |

places; separation from families (not just immediate families, but more extended family relations); unfamiliarity with the new milieu; and confusion on the part of the wives placed under new and totally different circumstances.

It is reasonable to believe that persons who have a history of mobility, even within their regions, might be more likely candidates for re-location. There are no set methods for determining this, however, and such re-location is usually done on a trial and error basis. Deprez (1972) analysed the mobility of native employees of Pine Point Mine and found that some of the problems mentioned in the preceding paragraph deterred the natives of Fort Resolution, Hay River and Fort Smith from either taking, or remaining on jobs at the mine.

One long standing factor which hindered stabilization of the mine's native work force was the lack of communication between Pine Point and Fort Resolution due to extremely poor road conditions. Many married men tried to work at Pine Point, but were unable to bring their families and eventually left the job to return home. The situation was exaggerated by the fact that in Fort Resolution there were many single men, and the married men were most unhappy in contemplation of their wives being left at home alone during their work week at Pine Point (Deprez, 1972).

Mobility in itself is a particularly difficult factor to measure accurately. The Mackenzie Manpower Survey attempted to obtain some information on the movements of the respondents for a period of seven years preceding the survey reference year (October 1, 1969 - September 30, 1970). The results are summarized for the whole district covered by the survey and presented in Table 9.

It is abundantly clear that the non-native population is far more mobile than the native population. Seventy-six per cent of the total district native population 14 years of age and over had lived only in one place, as compared to 26 per cent of the total non-native population. Only two per cent of the total native population had lived in as many as five different places; nine per cent of the non-native population had lived in five different places. Many of those native residents listed as having lived in three or more places were found, upon analysis, to have relatively young persons who had attended school or training courses in settlements other than their home settlement. The non-native persons were, for the most part, found to have moved a number of times in connection with their work.

There is evidence that native residents of the Mackenzie Valley have become somewhat more mobile since 1970 when the Mackenzie Manpower Survey was conducted. However, research on natives' willingness to move away from home to take work will be required before concrete plans for moving large numbers of people to pipeline jobs are finalized.



Table 9

PERCENTAGE DISTRIBUTION OF POPULATION 14 YEARS OF AGE AND OVER BY NUMBER OF PLACES OF RESIDENCE DURING PERIOD OCTOBER, 1963 - SEPTEMBER, 1970 IN MACKENZIE DISTRICT<sup>1/</sup>, N.W.T.

| Number of Places | Native |        | Non-Native |        |
|------------------|--------|--------|------------|--------|
|                  | Male   | Female | Male       | Female |
| 1 place          | 76.3   | 76.9   | 27.9       | 24.9   |
| 2 places         | 13.5   | 13.7   | 39.0       | 41.0   |
| 3 places         | 6.3    | 5.7    | 18.4       | 19.9   |
| 4 places         | 2.6    | 2.2    | 9.1        | 8.9    |
| 5 places         | 0.8    | 1.0    | 3.6        | 3.2    |
| 6 places         | 0.3    | 0.3    | 1.3        | 1.3    |
| 7 places         | 0.2    | 0.1    | 0.4        | 0.5    |
| 8 places         | 0.0    | 0.1    | 0.3        | 0.3    |

<sup>1/</sup> Whole of region covered by Mackenzie Manpower Survey (see Appendix 1 for list of settlements included).

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 6.

## CHAPTER 3

INCOME SOURCES OF THE NON-PIPELINE POPULATIONIntroduction

The construction of a pipeline will have a noticeable effect on the economic position of those local residents who become associated with pipeline activities. The extent to which the local economy of the Impact Corridor would be affected is examined in detail in Volumes 4, 5 and 7. No attempt will be made in the present volume, therefore, to present an in-depth discussion of the economic base for the corridor population. A limited discussion of the relative income positions of the population groups is given here only to emphasize the differences between the two groups and also to point out the relative importance of various sources of income to the native population.

As is the case elsewhere in Volume 6, examination of the non-native population group must be limited as a result of the low sample (41 per cent) of the total population group provided by the D.I.A.N.D. Mackenzie Manpower Survey. The low coverage of non-natives coupled with the large number of no replies on income questions by this group has rendered income information on non-natives of little value for comparative purposes. Any information on income for either population group, regardless of the size of the sample, must also be regarded as an underestimate, since there were no provisions made in the manpower survey for listing amounts of money greater than \$10,000. This is, anyone reporting having made \$17,000 will show in the category of \$10,000 and over. Nevertheless, it is possible to present a limited analysis of conditions as they relate to income within the corridor.

With two documented exceptions, material presented in this chapter is derived from the D.I.A.N.D. Mackenzie Manpower Survey.

The first exception concerns income on hunting and trapping. As discussed in Volume 5, those parts of the manpower survey pertaining to hunting and trapping are poorly done: people did not remember their incomes; some refused to answer; the survey enumerators in some settlements had no interest in hunting-trapping and did not question respondents closely. The result is that only an estimated one-third of those persons (in the native group) who spend more than casual hours or earn more than pocket money at land-based activities were surveyed. For this reason, total settlement figures for trapping earnings had to be compiled from the N.W.T. Fur Traders' Record Books (see Volume 5).

The other weak area of the manpower survey concerns information on social assistance and welfare payments. Since such recorded information is confidential, it was necessary to attempt to interview the recipients. People do not as a rule keep detailed accounts of welfare payments received; consequently, the majority of those questioned simply

were unable to even estimate what income they had received from social assistance programs. However, the Department of Social Development of the N.W.T. Government supplied consolidated total figures by settlement for the period covered by the survey, thus allowing some indication of the relative position of social assistance within the corridor. Social legislation items such as family allowance payments and pensions have been calculated for the survey population.

From data obtained by the D.I.A.N.D. Mackenzie Manpower Survey, income information was compiled to form earned and unearned categories. Earned income comprises wage/salary employment, hunting, trapping and fishing<sup>1/</sup> and self employment (excluding hunting). Unearned income includes income from family allowance payments, old age and disability pensions, and welfare payments<sup>2/</sup>. The last have been broken down to show income from social assistance (relief) and "other welfare". "Other welfare", which excludes social assistance payments made for economic reasons, is made up of such items as payment of training allowances to persons on courses, assistance for maintenance of dependent children and other essentially non-economic reasons. Table 10 presents a regional summary which gives an order of magnitude of the amounts of money involved (see Appendix 5 for details on specific corridor settlements).

The relative importance of the various sources of income may be seen in Table 11. Income from wage/salary employment is the single most important source of income within the Impact Corridor. For the total population (combined), wage income makes up 92 per cent of all total earned income, 83 per cent of total income (from all sources).

The income source of "self-employment" includes those persons who earned income through work in their own businesses, be those stores, the production of handicrafts, or other activities, but excluding hunters and trappers. Data on private business in the North have always been quite difficult to obtain. The D.I.A.N.D. Mackenzie Manpower Survey was no exception, with extremely poor results from the private sector, largely due to refusal of private entrepreneurs to participate in the survey. Although information obtained by the survey must be regarded as only a small sample of the activities of the self-employed, particularly among non-natives, it is nevertheless interesting to note the relatively low significance of self employment as a source of income within both population groups. As a percentage of either earned income or total income, income from self employment for the native population is consistently below one per cent except within the Upper Mackenzie Region (Table 11). For non-natives, it reaches no higher than eight per cent, (the Upper Mackenzie Region), where it is doubtless accounted for almost entirely within the town of Hay River.

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<sup>1/</sup> Hunting, trapping and fishing as economic activities are analyzed in detail in Volume 5. No attempt is made to treat them in the present volume beyond the analysis necessary in conjunction with analysis of the labour force (see below, Chapters 4, 5).

<sup>2/</sup> As indicated in Table 10, below, information on welfare income was obtained from the N.W.T. Government. This information corresponds to the period of the Mackenzie Manpower Survey - October 1, 1969 - September 30, 1970.



Table 10  
INCOME BY SOURCE FOR POPULATION GROUPS <sup>1/</sup> IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

| Income Source                   | Total                  |             | Total                    |            | Total                  |             | Total                     |             |
|---------------------------------|------------------------|-------------|--------------------------|------------|------------------------|-------------|---------------------------|-------------|
|                                 | Lower Mackenzie Region |             | Central Mackenzie Region |            | Upper Mackenzie Region |             | Mackenzie Impact Corridor |             |
|                                 | Native                 | Non-Native  | Native                   | Non-Native | Native                 | Non-Native  | Native                    | Non-Native  |
| Wages/Salaries                  | \$1,520,733            | \$2,599,295 | \$ 308,847               | \$ 551,973 | \$ 615,924             | \$2,429,654 | \$2,445,504               | \$5,580,922 |
| Self-Employment                 | 9,265                  | 119,148     | 2,625                    | 5,000      | 7,988                  | 226,275     | 19,878                    | 350,423     |
| Hunting-Trapping <sup>2/</sup>  | 183,274                | -           | 45,925                   | -          | 84,896                 | -           | 314,095                   | -           |
| Total Earned Income             | 1,713,272              | 2,718,443   | 357,397                  | 556,973    | 708,808                | 2,655,929   | 2,779,477                 | 5,931,345   |
| Social Legislation              | 187,717                | 49,194      | 92,090                   | 7,608      | 142,874                | 54,907      | 422,681                   | 111,709     |
| Social Assistance <sup>3/</sup> | 97,862                 | -           | 13,118                   | -          | 101,558                | -           | 212,538                   | -           |
| Other Welfare <sup>3/</sup>     | 75,612                 | -           | 36,728                   | -          | 94,516                 | -           | 206,856                   | -           |
| Total Unearned Income           | 361,191                | 49,194      | 141,936                  | 7,608      | 338,948                | 54,907      | 842,075                   | 111,709     |
| Total Income                    | \$2,074,463            | \$2,767,637 | \$ 499,333               | \$ 564,581 | \$ 1,047,756           | \$2,710,836 | \$3,621,552               | \$6,043,054 |

<sup>1/</sup> Non-Natives based on only a sample coverage of 41 percent of total non-native population included for comparison purposes only.

<sup>2/</sup> N.W.T. Fur Traders' Record Books, July 1, 1969 - June 30, 1970. Income breakdown by population group not possible; negligible non-native income.

<sup>3/</sup> Department of Social Development, N.W.T. Government, Yellowknife, N.W.T. for October 1, 1969 - September 30, 1970. Breakdown by population group not possible; only negligible amounts would be ascribed to non-natives.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 59-67 except as indicated.

Table 11

PERCENTAGE BREAKDOWN<sup>1/</sup> OF INCOME BY SOURCE FOR POPULATION GROUPS IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|  | Lower Mackenzie Region |            | Central Mackenzie Region |            | Upper Mackenzie Region |            | Total Impact Corridor |            |
|--|------------------------|------------|--------------------------|------------|------------------------|------------|-----------------------|------------|
|  | Native                 | Non-Native | Native                   | Non-Native | Native                 | Non-Native | Native                | Non-Native |
| Wage/Salary as % Total Earned Income                               | 88.8                   | 95.6       | 86.4                     | 99.1       | 86.9                   | 9.15       | 88.0                  | 94.1       |
| Income from Self-Employment as % Total Earned Income               | 0.5                    | 4.4        | 0.7                      | 0.9        | 1.1                    | 8.5        | 0.7                   | 5.9        |
| Income from Hunting as % Total Earned Income                       | 10.7                   | -          | 12.8                     | -          | 12.0                   | -          | 11.3                  | -          |
| Total Earned Income  | 100.0                  | 100.0      | 100.0                    | 100.0      | 100.0                  | 100.0      | 100.0                 | 100.0      |
| Social Legislation Income <sup>2/</sup> as % Total Unearned Income | 52.0                   | 100.0      | 64.9                     | 100.0      | 42.2                   | 100.0      | 50.2                  | 100.0      |
| Social Assistance as % Total Unearned Income                       | 27.1                   | -          | 9.2                      | -          | 29.9                   | -          | 25.2                  | -          |
| Total Unearned Income  | 20.9                   | -          | 25.9                     | -          | 27.9                   | -          | 24.6                  | -          |
| Other Welfare Payments as % Total Unearned Income                  | 73.3                   | 93.9       | 61.8                     | 97.8       | 58.8                   | 89.6       | 67.5                  | 92.4       |
| Total Income   | 100.0                  | 100.0      | 100.0                    | 100.0      | 100.0                  | 100.0      | 100.0                 | 100.0      |
| Income from Self-Employment as % Total Income                      | 0.4                    | 4.3        | 0.5                      | 0.9        | 0.8                    | 8.3        | 0.5                   | 5.8        |
| Hunting Income as % Total Income                                   | 8.8                    | -          | 10.0                     | -          | 8.1                    | -          | 8.7                   | -          |
| Income from Social Legislation as % Total Income                   | 9.0                    | -          | 18.4                     | 1.3        | 13.6                   | 2.8        | 11.7                  | 1.8        |
| Social Assistance as % Total Income                                | 4.7                    | -          | 2.6                      | -          | 9.7                    | -          | 5.9                   | -          |
| Other Welfare Payments as % Total Income                           | 3.6                    | -          | 7.3                      | -          | 9.0                    | -          | 5.7                   | -          |
| Total Income   | 100.0                  | 100.0      | 100.0                    | 100.0      | 100.0                  | 100.0      | 100.0                 | 100.0      |
| Total Earned Income as %   | 82.6                   | 98.2       | 71.6                     | 98.6       | 67.6                   | 98.0       | 76.7                  | 98.2       |
| Total Unearned Income as %   | 17.4                   | 1.8        | 28.4                     | 1.3        | 32.3                   | 2.0        | 23.3                  | 1.8        |

<sup>1/</sup> Each breakdown represents income source as a percentage of the total for each population group, i.e., native wages as percentage of native earned income, etc.

<sup>2/</sup> Family allowance, old age and disability pensions.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 59-67, also Volume 6, Part 1, Table 10 above.

Table 12

PERCENTAGE BREAKDOWN OF NATIVE INCOME BY SOURCE  
BY SETTLEMENT FOR MACKENZIE IMPACT CORRIDOR, N.W.T.

|                                 | Wages &<br>Salaries as<br>% of Earned<br>Income | Earned In-<br>come as %<br>of Total<br>Income | Wages &<br>Salaries<br>as % of Total<br>Income |
|---------------------------------|---|---|--|
|                                 | per cent  | per cent                                      | per cent                                       |
| <u>Lower Mackenzie Region</u>   |   |   |  |
| Inuvik                          | 87.2  | 87.6  | 76.4   |
| Aklavik                         | 79.1  | 76.3  | 60.4   |
| Ft. McPherson                   | 92.4  | 73.6  | 68.0   |
| Arctic Red River                | 98.4  | 87.0  | 85.7   |
| Tuktoyaktuk                     | 96.5  | 86.3  | 83.3   |
| Total Region                    | 88.8  | 82.6  | 73.3   |
| <u>Central Mackenzie Region</u> |   |   |  |
| Norman Wells                    | Information now available                       |   |  |
| Colville Lake                   | 73.9  | 68.0  | 50.2   |
| Ft. Franklin                    | 81.3  | 73.4  | 59.7   |
| Ft. Good Hope                   | 90.1  | 61.9  | 55.8   |
| Ft. Norman                      | 90.3  | 79.2  | 71.6   |
| Total Region                    | 86.4  | 71.6  | 61.8   |
| <u>Upper Mackenzie Region</u>   |   |   |  |
| Ft. Simpson                     | 84.4  | 73.7  | 62.2   |
| Ft. Liard                       | 64.4  | 74.5  | 59.8   |
| Ft. Providence                  | 82.9  | 55.4  | 45.9   |
| Ft. Wrigley                     | 79.6  | 80.2  | 63.9   |
| Jean Marie River                | 59.9  | 62.6  | 37.5   |
| Nahanni Butte                   | 78.8  | 86.4  | 68.1   |
| Trout Lake                      | nil   | 98.7  | nil  |
| Hay River                       | 96.2  | 66.8  | 64.3   |
| Total Region                    | 86.9  | 67.6  | 58.8   |
| <u>Total Impact Corridor</u>    | 88.0  | 76.8  | 67.5   |

Source: DIAND, Mackenzie Manpower Survey, October 1, 1969 -  
 September 30, 1970, Tables 59-67; also Table 10, above.



Despite the assumption that many natives would derive income through production of handicrafts in their own homes, analysis of the Mackenzie Manpower Survey revealed that most handicraft production is done through the medium of government-sponsored handicraft projects or through co-operatives.<sup>1/</sup> In the case of self-employment among the non-natives, until an adequate study can be made of the scope of private enterprise in the North, it can only be observed that on the basis of available data, income from self-employment is of small importance when compared to wage employment.

### Native Income by Source

Wage income is the dominant source for the corridor native population, making up 67 per cent of total income from all sources, as compared to only nine per cent for hunting-trapping<sup>2/</sup>, and six per cent for social assistance (Table 12). Wage income as a percentage of the total native earned income assumes the same relative importance for each of the three Impact Corridor regions. Taken as a percentage of total native income, however, significant regional variations appear. There are also differences in the relative importance of the various sources of income as percentages of total income. For example, it may be noted that within the Upper Mackenzie Region, native wage income as a percentage of (native) total income is far lower than in the other two regions. Income from social assistance, however, forms a considerably higher proportion of total income, (9.7 per cent, in the Upper Mackenzie Region) than it does in either of the other two corridor regions. Within the Impact Corridor, the Lower Mackenzie Region native population appears to have the most favourable overall economic position, if this is assessed from the point of view of the proportion of earned income to total income.

An exact definition of the relative importance of the different sources of income is somewhat difficult because of the necessity of using different sources for the data. Data on hunting income within the settlements and on social welfare program expenditures have been obtained from different sources than those on other income sources e.g., wage employment, which came from the Mackenzie Manpower Survey. However, despite the shortcomings of the data base, one significant fact clearly emerges: social assistance payments (welfare), constitute a far smaller proportion of total native income in the corridor than anticipated. For the corridor, it is 5.9 per cent. This is especially significant when it is realized that 1) there is only an 85 per cent sample of the native population for the corridor; 2) of that sample, accurate information on earnings, particularly wage income, is unavailable for many persons who

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<sup>1/</sup> Most respondents to the Manpower Survey who listed handicrafts production as a type of work and/or source of income, gave the name of the local co-operative or project as the employer rather than "self".

<sup>2/</sup> Income figures used for hunting-trapping income are those obtained from the N.W.T. Fur Traders' Record Books, (Table 9 above), and not those obtained through the Mackenzie Manpower Survey which did not yield good results on hunting-trapping income (see Volume 5).

Table 13

PROPORTION<sup>1/</sup> OF NATIVE AND NON-NATIVE POPULATION GROUPS<sup>2/</sup> WITHIN EACH INCOME RANGE BY SOURCE OF INCOME  
 FOR TOTAL MACKENZIE IMPACT CORRIDOR, N.W.T.

|                            | \$1 - \$999    |                    | \$1,000 - 3,999 |                    | \$4,000 - 9,999 |                    | \$10,000 and over |                    |
|----------------------------|----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-------------------|--------------------|
|                            | Native percent | Non-Native percent | Native percent  | Non-Native percent | Native percent  | Non-Native percent | Native percent    | Non-Native percent |
| Wages and Salary           | 79.2           | 20.8               | 72.1            | 27.9               | 35.0            | 65.0               | 4.5               | 95.5               |
| Hunting, Trapping, Fishing | 98.7           | 1.3                | 100.0           | -                  | 71.4            | 28.6               | -                 | -                  |
| Self-Employed              | 88.2           | 11.8               | 71.4            | 28.6               | -               | 100.0              | -                 | 100.0              |
| Earned Income              | 83.4           | 16.6               | 73.9            | 26.1               | 34.7            | 65.3               | 3.7               | 96.3               |
| Unearned Income            | 62.8           | 37.2               | 87.6            | 12.4               | -               | 100.0              | -                 | -                  |
| Total Income               | 79.0           | 21.0               | 79.6            | 20.4               | 35.3            | 64.7               | 4.8               | 95.2               |

1/ Percentage breakdown by ethnic origin according to total number of persons in each income group.

2/ Coverage on sample basis only; 41 percent of total non-native population; 87 percent of total native population in corridor.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 25-30.

did not report the amount of wage income received; and 3) total income figures given in Table 10 do not reflect total earned income of all who reported, nor of those who reported earning in excess of \$10,000. It is estimated that inclusion of income figures for all those who reported "not specified", and inclusion of individual income figures on hunting-trapping returns might significantly reduce social assistance as a percentage of total income to as low as 3.5 per cent for the corridor native population.

In the face of the high unemployment rate problem confronting Canada as a whole, and an accompanying increase in welfare expenditures, it is encouraging to note that in the economically underdeveloped North there are areas in which social assistance forms a low percentage of income.<sup>1/</sup> This is not to say that the total income of the native population in the corridor is high. It is well known that much of the native labour force is underemployed and that only limited full-time work is available. Nevertheless, it would appear that significant numbers of corridor residents are managing to earn some form of support. However, this encouraging note must be tempered somewhat when examination is made of the amounts of income received by the majority of the native population.

#### Income Amounts

Because of the small size of the non-native population group sample, it is not possible to demonstrate the native share of total income within a region or settlement. It is possible to obtain a measure of the differences between the two groups through comparison of the numbers of each group who fall into the various income ranges shown in Table 13. Significant facts to be noticed are: 1) the general grouping of the native population earnings in the two income ranges under \$4,000; 2) the very low native representation in the category \$10,000 and over (also Appendix 5). The low native representation in the higher income categories, and the disparities between the two population groups are further accentuated in Table 14, which shows each population group's share of total income by source.

As might be expected, family income distribution by income range is not significantly different from that of individual residents (Appendix 6). More non-native families than native families show up in the higher income ranges in both the wage employment and earned categories, owing to the general tendency on the part of wives of non-native wage earners to also hold either full or part-time jobs.

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<sup>1/</sup> The 5.9 per cent figure is for the entire 12-month period October 1, 1969 - September 30, 1970. Seasonal fluctuations change the picture significantly, social assistance usually reaching a high during winter months when casual employment may be limited. In the Delta, however, the seasonal variation may not be as marked as elsewhere in the corridor, especially in recent years when oil exploration during winter months has produced much activity providing wage employment.

Average Incomes<sup>1/</sup>

From the results of the Mackenzie Manpower Survey, supplemented by data for trapping income and welfare income<sup>2/</sup>, approximate average incomes have been calculated as shown in Table 15. Here again, both regional differences and differences between the two population groups show up clearly. It should be noted again that the income figures from the D.I.A.N.D. Mackenzie Manpower Survey given for the non-native group are underestimated. This arises from the fact that no provision was made for listing amounts of income over \$10,000.<sup>3/</sup> In the area such as the Mackenzie District of the N.W.T. in which the majority of the non-natives are territorial or federal civil servants, there will be a significant number of persons earning in excess of \$10,000. If the exact amounts were available, the average income figures for the non-native population would be decidedly higher, whereas those for the native group would not change significantly.

Some of the underlying causes of the difference between the two population sectors have been outlined, e.g., relative population sizes, differences in education backgrounds. Other causes, such as differences in skill, work experience and also availability of work, emerge upon examination of such factors as type of work done, and time spent in wage employment.

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<sup>1/</sup> In-depth analysis of the economic base of the Impact Corridor is presented in Volumes 4, 5, 7 of this report. Only an indication of the various income sources, based on results of the Mackenzie Manpower Survey, is given here.

<sup>2/</sup> Trapping: N.W.T. Fur Traders' Record Books; see also Volume 5. Welfare, N.W.T. Government, Yellowknife, N.W.T.

<sup>3/</sup> It also must be remembered that only a very small sample of the total non-native population group was given by the Manpower Survey.



Table 14  
1/ 2/  
PERCENTAGE DISTRIBUTION OF NATIVE AND NON-NATIVE POPULATION BY SOURCE OF INCOME AND  
INCOME CATEGORY, MACKENZIE IMPACT CORRIDOR, N.W.T.

| LOWER MACKENZIE REGION   |             |            |                 |            |                 |            |                   |            |                      |            |
|--------------------------|-------------|------------|-----------------|------------|-----------------|------------|-------------------|------------|----------------------|------------|
| Income Source            | \$1 - \$999 |            | \$1,000 - 3,999 |            | \$4,000 - 9,999 |            | \$10,000 and over |            | Income Not Specified |            |
|                          | Native      | Non-Native | Native          | Non-Native | Native          | Non-Native | Native            | Non-Native | Native               | Non-Native |
|                          |             |            |                 |            |                 |            |                   |            |                      |            |
| Wages and Salaries       | 22.8        | 7.3        | 41.2            | 11.7       | 25.1            | 47.8       | 1.2               | 25.4       | 9.7                  | 7.8        |
| Hunting-Trapping         | 49.1        | 60.0       | 15.7            | -          | 2.8             | 20.0       | -                 | -          | 32.4                 | 20.0       |
| Self-Employment          | 52.4        | 8.7        | 14.3            | 4.3        | -               | 13.0       | -                 | 43.5       | 33.3                 | 30.5       |
| Earned Income            | 21.6        | 7.2        | 41.5            | 11.4       | 23.7            | 46.5       | 0.9               | 26.5       | 12.3                 | 8.4        |
| Unearned Income          | 77.0        | 88.6       | 22.8            | 10.7       | -               | 0.7        | -                 | -          | 0.2                  | -          |
| Total Income             | 26.4        | 10.3       | 45.8            | 12.8       | 19.7            | 44.9       | 1.2               | 26.1       | 6.9                  | 5.9        |
| CENTRAL MACKENZIE REGION |             |            |                 |            |                 |            |                   |            |                      |            |
| Wages and Salaries       | 43.1        | 7.0        | 41.4            | 11.6       | 11.5            | 40.7       | 1.1               | 31.4       | 2.9                  | 9.3        |
| Hunting-Trapping         | 86.0        | -          | 3.2             | -          | -               | -          | -                 | -          | 10.8                 | 0.0        |
| Self-Employment          | 92.9        | -          | -               | -          | -               | 33.3       | -                 | -          | 7.1                  | 66.7       |
| Earned Income            | 48.6        | 7.0        | 37.5            | 11.6       | 9.3             | 39.5       | 0.9               | 31.4       | 3.7                  | 10.5       |
| Unearned Income          | 69.8        | 91.7       | 29.7            | 8.3        | -               | -          | -                 | -          | 0.5                  | -          |
| Total Income             | 41.1        | 10.2       | 47.9            | 12.5       | 7.9             | 39.8       | 0.7               | 31.8       | 2.4                  | 5.7        |

1/ Earners within each income category by source of income as a per cent of total earners within that source for each population group.

2/ Based on sample coverage by survey of only 41 per cent of total non-native population in corridor.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 25-30.

Table 14 (cont'd)

PERCENTAGE DISTRIBUTION OF NATIVE AND NON-NATIVE POPULATION BY SOURCE OF INCOME AND  
INCOME CATEGORY, MACKENZIE IMPACT CORRIDOR, N.W.T.

UPPER MACKENZIE REGION

| Income Source      | \$1 - \$999 |            | \$1,000 - 3,999 |            | \$4,000 - 9,999 |            | \$10,000 and over |            | Income Not Specified |            |
|--------------------|-------------|------------|-----------------|------------|-----------------|------------|-------------------|------------|----------------------|------------|
|                    | Native      | Non-Native | Native          | Non-Native | Native          | Non-Native | Native            | Non-Native | Native               | Non-Native |
|                    | percent     |            | percent         |            | percent         |            | percent           |            | percent              |            |
| Wages and Salaries | 33.7        | 9.4        | 28.9            | 19.7       | 20.0            | 39.2       | 0.3               | 17.1       | 17.1                 | 14.6       |
| Hunting-Trapping   | 68.1        | -          | 5.7             | -          | 1.4             | 14.3       | -                 | -          | 24.8                 | 85.7       |
| Self-Employment    | 50.0        | 3.9        | 16.7            | 1.9        | -               | 32.7       | -                 | -          | 33.3                 | 42.3       |
| Earned Income      | 41.9        | 8.3        | 24.6            | 18.2       | 16.2            | 38.9       | 0.3               | 17.2       | 17.0                 | 17.4       |
| Unearned Income    | 68.2        | 92.9       | 31.8            | 6.6        | -               | -          | -                 | -          | -                    | 0.5        |
| Total Income       | 39.7        | 15.3       | 38.5            | 19.7       | 13.1            | 37.7       | 0.2               | 17.0       | 8.5                  | 10.3       |

TOTAL IMPACT CORRIDOR

|                    |      |      |      |      |      |      |     |      |      |      |
|--------------------|------|------|------|------|------|------|-----|------|------|------|
| Wages and Salaries | 29.3 | 8.3  | 37.6 | 15.7 | 21.4 | 42.9 | 0.9 | 21.8 | 10.8 | 11.3 |
| Hunting-Trapping   | 66.9 | 25.0 | 8.2  | -    | 1.5  | 16.7 | -   | -    | 23.4 | 58.3 |
| Self-Employment    | 63.8 | 5.1  | 10.7 | 2.6  | -    | 26.9 | -   | 25.6 | 25.5 | 39.8 |
| Earned Income      | 32.8 | 7.8  | 35.4 | 14.9 | 18.8 | 42.0 | 0.7 | 22.1 | 12.3 | 13.2 |
| Unearned Income    | 72.6 | 91.2 | 27.2 | 8.2  | -    | 0.3  | -   | -    | 0.2  | 0.3  |
| Total Income       | 33.5 | 12.9 | 43.8 | 16.3 | 15.3 | 40.8 | 0.8 | 21.9 | 6.6  | 8.1  |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 25-30.

Table 15

AVERAGE AMOUNTS<sup>1/</sup> EARNED BY RESIDENTS 14 YEARS OF AGE AND OVER BY SOURCE OF INCOME  
MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

|                                 | <u>Wage-Salary</u> |                   | <u>Hunting-Trapping</u> |                                | <u>Self-Employment</u> |                   | <u>Total Earned Income</u> |                   |
|---------------------------------|--------------------|-------------------|-------------------------|--------------------------------|------------------------|-------------------|----------------------------|-------------------|
|                                 | <u>Native</u>      | <u>Non-Native</u> | <u>Native</u>           | <u>Non-Native<sup>2/</sup></u> | <u>Native</u>          | <u>Non-Native</u> | <u>Native</u>              | <u>Non-Native</u> |
| <u>Lower Mackenzie Region</u>   |                    |                   |                         |                                |                        |                   |                            |                   |
| Inuvik                          | \$3,518            | 6,229             | \$2,786                 | -                              | \$ 881                 | 6,778             | \$3,319                    | 6,252             |
| Aklavik                         | 2,086              | 6,332             | 1,780                   | -                              | 132                    | 3,767             | 1,945                      | 6,072             |
| Fort McPherson                  | 2,419              | 6,162             | 807                     | -                              | 102                    | -                 | 2,059                      | 6,162             |
| Arctic Red River                | 3,304              | N/Av              | 94                      | -                              | N/Av                   | N/Av              | 2,130                      | N/Av              |
| Tuktoyaktuk                     | 2,134              | N/Av              | 526                     | -                              | 374                    | N/Av              | 1,920                      | N/Av              |
| Total Region                    | 2,668              | 6,233             | 1,455                   | -                              | 463                    | 6,271             | 2,393                      | 6,235             |
| <u>Central Mackenzie Region</u> |                    |                   |                         |                                |                        |                   |                            |                   |
| Norman Wells                    | N/Av               | 6,750             | N/Av                    | -                              | N/Av                   | -                 | N/Av                       | 6,750             |
| Colville Lake                   | 778                | -                 | 578                     | -                              | 25                     | -                 | 690                        | -                 |
| Fort Franklin                   | 1,303              | 5,868             | 455                     | -                              | 180                    | 5,000             | 943                        | 5,825             |
| Fort Good Hope                  | 1,852              | 5,122             | 527                     | -                              | -                      | -                 | 1,483                      | 5,122             |
| Fort Norman                     | 3,091              | 5,867             | 402                     | -                              | 213                    | -                 | 1,781                      | 5,867             |
| Total Region                    | 1,765              | 6,202             | 464                     | -                              | 188                    | 5,000             | 1,241                      | 6,189             |
| <u>Upper Mackenzie Region</u>   |                    |                   |                         |                                |                        |                   |                            |                   |
| Fort Simpson                    | 2,414              | 5,486             | 4,019                   | -                              | -                      | 2,000             | 2,549                      | 5,413             |
| Fort Liard                      | 1,368              | 6,447             | 210                     | -                              | 340                    | -                 | 666                        | 6,447             |
| Fort Providence                 | 2,040              | N/Av              | 878                     | -                              | -                      | N/Av              | 1,664                      | N/Av              |
| Fort Wrigley                    | 1,353              | 6,575             | 1,730                   | -                              | -                      | -                 | 1,414                      | 6,575             |
| Jean Marie River                | 398                | -                 | 585                     | -                              | -                      | -                 | 456                        | -                 |
| Nahanni Butte                   | 1,363              | -                 | 266                     | -                              | -                      | -                 | 728                        | -                 |
| Trout Lake                      | -                  | -                 | 593                     | -                              | -                      | -                 | 593                        | -                 |
| Hay River                       | 2,222              | 4,899             | 458                     | -                              | 726                    | 4,388             | 1,959                      | 4,845             |
| Total Region                    | 1,968              | 4,999             | 615                     | -                              | 723                    | 4,351             | 1,534                      | 4,937             |
| Total Impact Corridor           | \$2,134            | 5,811             | \$ 845                  | -                              | \$ 459                 | 5,207             | \$1,723                    | 5,787             |

<sup>1/</sup> Based on total numbers of males and females listed as having earned income in these categories.

<sup>2/</sup> Information on income from trapping obtained from N.W.T. Fur Traders' Record Books, all income assigned to Native as there exists no way to distribute it otherwise.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970.





## CHAPTER 4

INCOME PRODUCING ACTIVITIES OF THE NON-PIPELINE  
POPULATION AND LABOUR FORCE

Definitions

A portion of the total adult population may be defined as the "potential labour force" or "labour force age" population, the upper and lower age limits for which may be set according to whatever standards or criteria are suitable or desired for the particular purpose at hand. When the program formally started in 1969, the D.I.A.N.D. Northern Manpower Survey Program, following the then current practice of Statistics Canada, defined the lower limit of the labour force age population or potential labour force as anyone 14 years of age,<sup>1/</sup> administering the full survey questionnaire to all those 14 and over. No upper limit has been formally set for purposes of the present analysis, although one could arbitrarily set an upper limit of anywhere from 50 to 65 years of age.<sup>2/</sup>

The "labour force", i.e., the true or actual labour force, forms a portion of the potential labour force. Following standard Statistics Canada practices, the N.W.T. Manpower Survey Program, including the Mackenzie Survey, defined the labour force as those persons who had done one or any combination of the activities of wage employment, hunting-trapping-fishing, self-employment, or looking for work, for not less than 46 weeks of the 12-month period of the particular survey. In the case of the Mackenzie Manpower Survey, this would be not less than 46 weeks in the period October 1, 1969 - September 30, 1970.

In order to better reflect the particular circumstances and conditions prevailing in the North, particularly among the native population, the prime target of the manpower survey program, the standard term of "looking for work" and its definition underwent some modification for purposes of the survey program. "Looking for work", as used by Statistics Canada in its monthly labour force surveys, implies an actual fact or action of "looking for work" or "seeking" work, i.e., that someone went to a Canada Manpower Center, read bulletin boards,

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<sup>1/</sup> Increasingly often, and certainly more realistically, the lower age limit is defined as 15 years of age, as is done for the analyses carried out in Volume 7 of the impact study. Age 15 is also more easily used for projection and estimation purposes since it is a logical part of the four-year age group system, e.g. 0-4, 5-9, 10-14, 15-19, etc., as used by Statistics Canada and the N.W.T. Manpower Survey Program. Since the number of 14-year olds in the corridor is negligible, and since virtually none of them worked, no conflict arises between use of 14 years as the lower limit in Volume 6 as opposed to 15 years in Volume 7.

<sup>2/</sup> In volume 7, the active working age population has been defined as that between 15 and 64 years of age.

answered advertisements in newspapers. This definition was found to have little relevance in the North, particularly in the more remote, predominantly native communities of the eastern and central parts of the N.W.T., and to a certain extent among the native population of even the larger centers through the N.W.T. Physically looking for work is difficult in many places. The seasonal nature of much of the work means that there is no work to look for; most of the members of the working age population know this and do not concern themselves with actually going out to ask for work. There is also the tendency on the part of many members of particularly the native population to not so much actively seek work as to be sought - i.e., to wait until the call goes out for workers for, e.g., sealift work, housing construction, seasonal work, etc. The absence of a formal apparatus for placing workers in many of the small settlements makes formal definition of looking for work difficult and somewhat meaningless.

For this reason, the manpower surveys used the terms "without work", which could also be defined as "available for work" to cover the looking for work aspect. All persons who had done any one or a combination of the income-producing activities previously (defined above) for any portion of the year, but had not worked otherwise were classified as "without work". Since the standard definition of labour force includes those looking for work, the manpower survey placed in the labour force those persons above the age of 14, who had done any work in the year and were without work during the balance, and also those able-bodied persons between 14 and 64 years of age who were without work the full 46 - 52 weeks, but were not full-time students, or full-time housewives.

The "potential" labour force or working age population may thus be defined as that portion of the population over 14 (or 15) years of age; the "actual" labour force, however, is more strictly defined, and will comprise a proportion of the potential labour force. For purposes of determining possible sources of labour supply from among the territorial residents for pipeline construction work and other major development activities, it is necessary to assess both the full "potential" labour force population and the strictly defined "actual" labour force.

#### Involvement in Activities

Many members of the "potential" labour force may work at an activity or combination of activities during the year, but not be part of the labour force. The two most notable examples are students and housewives, who may take part-time jobs or work for a few weeks during the summer or at Christmas, for example. In Appendix 7, the breakdown of activities and the time spent at each by each of the native and non-native population groups have been tabulated by settlement within the Impact Corridor. A summary of Appendix 7 is presented in Table 16. This shows the percentages of each group's "potential" labour force who

Table 16

PROPORTION OF TOTAL POPULATION<sup>1/</sup> 14 YEARS OF AGE AND OVER IN EACH POPULATION GROUP ENGAGED IN INCOME-PRODUCING  
ACTIVITIES<sup>2/</sup> AND OF THOSE WITHOUT WORK IN MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

|                                 | Per Cent of Total No. Engaged in All Activities Engaged |            |         |                  |            |         | Per Cent of Total Population        |            |         |
|---------------------------------|---|------------|---------|------------------|------------|---------|-------------------------------------|------------|---------|
|                                 | Within Each Activity                                    |            |         | Hunting-Trapping |            |         | 14 Years of Age                     |            |         |
|                                 | Self-Employment   |            |         |                  |            |         | and Over Without Work <sup>3/</sup> |            |         |
|                                 | Native  | Non-Native | percent | Native           | Non-Native | percent | Native                              | Non-Native | percent |
| <b>Lower Mackenzie River</b>    |   |            |         |                  |            |         |                                     |            |         |
| Inuvik                          | 82.3  | 95.4       | 3.6     | 4.1              | 14.1       | 0.5     | 14.0                                | 4.3        |         |
| Aklavik                         | 73.8  | 80.6       | 3.6     | 8.3              | 22.6       | 11.1    | 19.3                                | 2.0        |         |
| Fort McPherson                  | 78.6  | 100.0      | 2.3     | -                | 19.1       | -       | 26.1                                | 10.0       |         |
| Arctic Red River                | 63.4  | N/Av       | -       | N/Av             | 36.6       | N/Av    | 34.4                                | N/Av       |         |
| Tuktoyaktuk                     | 86.9  | N/Av       | 1.9     | N/Av             | 11.2       | N/Av    | 28.9                                | N/Av       |         |
| Total Region                    | 79.6  | 94.3       | 2.8     | 4.3              | 17.6       | 1.4     | 22.3                                | 4.3        |         |
| <b>Central Mackenzie Region</b> |   |            |         |                  |            |         |                                     |            |         |
| Norman Wells                    | N/Av  | 97.7       | N/Av    | 2.3              | N/Av       | -       | N/Av                                | 1.7        |         |
| Colville Lake                   | 65.5  | -          | 3.5     | -                | 31.0       | -       | 42.5                                | -          |         |
| Fort Franklin                   | 58.9  | 95.0       | 4.0     | -                | 37.1       | 5.0     | 27.2                                | -          |         |
| Fort Good Hope                  | 72.1  | 100.0      | -       | -                | 27.9       | -       | 26.4                                | -          |         |
| Fort Norman                     | 52.1  | 100.0      | 10.9    | -                | 37.0       | -       | 32.2                                | -          |         |
| Total Region                    | 60.8  | 97.8       | 4.8     | 1.1              | 34.4       | 1.1     | 29.4                                | 0.8        |         |
| <b>Upper Mackenzie Region</b>   |   |            |         |                  |            |         |                                     |            |         |
| Fort Simpson                    | 91.5  | 97.9       | -       | 2.1              | 8.4        | -       | 18.2                                | 3.0        |         |
| Fort Liard                      | 39.0  | 100.0      | 2.9     | -                | 58.1       | -       | 2.3                                 | -          |         |
| Fort Providence                 | 65.7  | N/Av       | 2.9     | N/Av             | 31.4       | N/Av    | 28.8                                | N/Av       |         |
| Fort Wrigley                    | 16.7  | 100.0      | -       | -                | 16.7       | -       | 29.4                                | -          |         |
| Jean Marie River                | 68.8  | -          | -       | -                | 31.2       | -       | 7.1                                 | -          |         |
| Nahanni Butte                   | 36.4  | -          | 13.6    | -                | 50.0       | -       | 11.5                                | -          |         |
| Trout Lake                      | -   | -          | 100.0   | -                | -          | -       | 8.7                                 | -          |         |
| Hay River                       | 84.8  | 88.2       | 2.2     | 10.6             | 13.0       | 1.2     | 26.7                                | 7.7        |         |
| Total Region                    | 67.7  | 89.3       | 2.4     | 9.6              | 29.9       | 1.1     | 20.0                                | 7.0        |         |

1/ Sample only as provided from results of manpower survey.

2/ Wage employment, self-employment (excluding hunting), hunting-trapping.

3/ Often defined as "looking for work".

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

worked at some one activity or combination of activities during the 12-month Mackenzie Manpower Survey reference period. The two most immediately obvious facts to be noted are 1) the relative proportions of the two population groups within the wage employment category, in which natives run consistently below non-natives, and 2) the exactly reversed situation within the "without work" category.

The analysis of the relative native position is carried further in Table 17, which shows the percentages of the potential labour force in wage employment according to numbers of weeks worked. For the corridor as a whole, the largest proportion of the native population involved in wage employment at any time during the year were in the category of 4 to 24 weeks (47 per cent), while only about 31 per cent were wage employed for 46 - 52 weeks, as opposed to 71 per cent of the non-native group.

Table 18 analyses the numbers of corridor native residents 14 years of age and over who were in the without work category. Natives without work (of any kind) for 46-52 weeks made up nearly 20 per cent of the total population in that category, the largest percentage falling in the 25-52 week category.

Despite the small sample of non-natives in the Mackenzie Manpower Survey, it is evident that most members of the non-native potential labour force were engaged in some income producing activities throughout much of the year. In all probability, this arises from the fact that many non-natives are able to secure part-time work, or full-time work at certain seasons of the year according to peak periods of activity, with either government agencies or private enterprise. A better assessment of hunting-trapping activities among the native population than that provided by the Mackenzie Manpower Survey might possibly reveal that greater numbers of people are working for a greater portion of the year than indicated.<sup>1/</sup> However, it is evident that the corridor's native labour force population was working on an irregular or sporadic basis, particularly at wage work. Nevertheless, a significant portion of the native population had worked for wages for at least half the year (Appendix 7).

#### Non-Pipeline Labour Force

It is assumed that the actual labour force would provide the bulk of those territorial residents likely to become involved in pipeline work, particularly at the initial stages. Therefore, it is important to examine the activities of the labour force, particularly the native labour force, in order to attempt to assess its likely participation in pipeline work.

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<sup>1/</sup> See Volume 5.



Table 17

## PER CENT OF NATIVE AND NON-NATIVE POPULATION IN WAGE EMPLOYMENT BY WEEK CATEGORIES

| MACKENZIE IMPACT CORRIDOR SETTLEMENTS       |             |            |              |            |               |            |               |            |
|---|-------------|------------|--------------|------------|---------------|------------|---------------|------------|
| (As Per cent of Total Number Wage Employed) |             |            |              |            |               |            |               |            |
| (Based on Mackenzie Manpower Survey Sample) |             |            |              |            |               |            |               |            |
|   | 1 - 3 weeks |            | 4 - 24 weeks |            | 25 - 45 weeks |            | 46 - 52 weeks |            |
|   | Native      | Non-Native | Native       | Non-Native | Native        | Non-Native | Native        | Non-Native |
| <b>Lower Mackenzie Region</b>               |             |            |              |            |               |            |               |            |
| Inuvik                                      | 2.2         | 1.1        | 29.8         | 13.5       | 17.7          | 12.9       | 50.3          | 72.5       |
| Aklavik                                     | 8.3         | 3.5        | 47.1         | 13.8       | 14.9          | 10.3       | 29.7          | 72.4       |
| Fort McPherson                              | 8.7         | -          | 56.3         | 5.9        | 14.6          | 17.6       | 20.4          | 76.5       |
| Arctic Red River                            | -           | N/Av       | 34.6         | N/Av       | 46.2          | N/Av       | 19.2          | N/Av       |
| Tuktoyaktuk                                 | 5.0         | N/Av       | 52.5         | N/Av       | 17.3          | N/Av       | 25.2          | N/Av       |
| Total Region                                | 5.3         | 1.2        | 44.0         | 13.2       | 17.7          | 12.9       | 33.0          | 72.7       |
| <b>Central Mackenzie Region</b>             |             |            |              |            |               |            |               |            |
| Norman Wells                                | N/Av        | -          | N/Av         | 11.6       | N/Av          | 4.7        | N/Av          | 83.7       |
| Colville Lake                               | 31.6        | -          | 63.2         | -          | 5.2           | -          | -             | -          |
| Fort Franklin                               | 6.9         | -          | 54.8         | -          | 16.4          | 26.3       | 21.9          | 73.7       |
| Fort Good Hope                              | 4.6         | -          | 63.6         | 9.0        | 6.8           | 9.0        | 25.0          | 81.8       |
| Fort Norman                                 | -           | -          | 42.1         | 18.8       | 21.1          | -          | 36.8          | 81.2       |
| Total Region                                | 7.4         | -          | 54.9         | 10.1       | 13.7          | 9.0        | 24.0          | 80.9       |
| <b>Upper Mackenzie Region</b>               |             |            |              |            |               |            |               |            |
| Fort Simpson                                | 12.3        | -          | 35.4         | 12.8       | 12.3          | 8.5        | 40.0          | 78.7       |
| Fort Liard                                  | 2.4         | -          | 73.2         | -          | 4.9           | 16.7       | 19.5          | 83.3       |
| Fort Providence                             | 8.7         | N/Av       | 52.2         | N/Av       | 8.7           | N/Av       | 30.4          | N/Av       |
| Fort Wrigley                                | 40.0        | -          | 44.0         | -          | 8.0           | 14.3       | 8.0           | 85.7       |
| Jean Marie River                            | -           | -          | 81.8         | -          | 9.1           | -          | 9.1           | -          |
| Nahanni Butte                               | -           | -          | 100.0        | -          | -             | -          | -             | -          |
| Trout Lake                                  | -           | -          | -            | -          | -             | -          | -             | -          |
| Hay River                                   | 2.6         | 1.4        | 43.6         | 22.1       | 15.4          | 10.6       | 38.5          | 66.0       |
| Total Region                                | 8.3         | 1.2        | 49.8         | 20.6       | 11.2          | 10.5       | 30.7          | 67.7       |
| Total Impact Corridor                       | 6.5         | 1.1        | 47.5         | 16.5       | 15.1          | 11.4       | 30.8          | 71.0       |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

Table 18

PER CENT OF NATIVE POPULATION WITHOUT WORK<sup>1/</sup> BY WEEK CATEGORIES,MACKENZIE IMPACT CORRIDOR SETTLEMENTS

(As Per cent of Total Number Without Work)

|                                 | <u>1 - 3 weeks</u> | <u>4 - 24 weeks</u> | <u>25 - 45 weeks</u> | <u>46 - 52 weeks</u> |
|---------------------------------|--------------------|---------------------|----------------------|----------------------|
| <u>Lower Mackenzie Region</u>   | per cent           | per cent            | per cent             | per cent             |
| Inuvik                          | 2.0                | 28.6                | 49.0                 | 20.4                 |
| Aklavik                         | -                  | 22.8                | 45.6                 | 31.6                 |
| Fort McPherson                  | 1.3                | 26.2                | 66.3                 | 6.2                  |
| Arctic Red River                | -                  | 77.3                | 9.1                  | 13.6                 |
| Tuktoyaktuk                     | -                  | 20.0                | 68.0                 | 12.0                 |
| Total Region                    | 0.7                | 28.3                | 55.1                 | 15.9                 |
| <u>Central Mackenzie Region</u> |                    |                     |                      |                      |
| Norman Wells                    | N/Av               | N/Av                | N/Av                 | N/Av                 |
| Colville Lake                   | -                  | 11.8                | 52.9                 | 35.3                 |
| Fort Franklin                   | -                  | 46.8                | 46.8                 | 6.4                  |
| Fort Good Hope                  | -                  | 18.4                | 68.4                 | 13.2                 |
| Fort Norman                     | -                  | 43.2                | 43.3                 | 13.5                 |
| Total Region                    | -                  | 33.8                | 52.5                 | 13.7                 |
| <u>Upper Mackenzie Region</u>   |                    |                     |                      |                      |
| Fort Simpson                    | 7.9                | 26.3                | 26.3                 | 39.5                 |
| Fort Liard                      | -                  | 33.3                | 66.7                 | -                    |
| Fort Providence                 | -                  | 45.2                | 42.9                 | 11.9                 |
| Fort Wrigley                    | -                  | 28.0                | 24.0                 | 48.0                 |
| Jean Marie River                | -                  | 100.0               | -                    | -                    |
| Nahanni Butte                   | -                  | 100.0               | -                    | -                    |
| Trout Lake                      | -                  | -                   | 100.0                | -                    |
| Hay River                       | 3.4                | 28.8                | 37.3                 | 30.5                 |
| Total Region                    | 2.9                | 33.9                | 33.3                 | 29.9                 |
| <u>Total Impact Corridor</u>    | 1.2                | 31.2                | 48.1                 | 19.5                 |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970,  
Table 14.

<sup>1/</sup> Or "looking for work".

The actual or full-time labour force has been defined as a portion of the labour force age or potential labour force population, (pp. 1-40 - 1-41, above).

The "participation rate", a standard labour force analysis term, is defined as that percentage of the population 14 years of age and over who belong to the full-time labour force. For purposes of the present discussion, labour force is used as defined previously in this chapter. The labour force may be further analysed as follows: those who did one of the activities - wage employment, hunting-trapping, self-employment or were without work - for a minimum of 46 weeks, or a combination of any of these activities for not less than 46 weeks in the preceding 12-month period (October 1, 1969 to September 30, 1970 for the Mackenzie Manpower Survey). Important factors to study are: what proportion of the labour force was engaged in wage employment and to what extent, and what experience does this proportion possess; of those who were in the labour force primarily on the strength of being "able-bodied" although without work, what proportion has potential which might enable those persons to adapt to pipeline work.

#### Labour Force Size and Participation

In Table 19 (and Appendix 8) the sizes of the labour force for each population group are given for the Mackenzie Impact Corridor. The Mackenzie Manpower Survey provides sample coverage only: 41 per cent for non-natives in the Impact Corridor, 87 per cent for natives. Therefore, figures such as participation rates, particularly for the non-native group are underestimated. Nevertheless, the figures for non-natives have been included in order to provide a basis of comparison.

Virtually all the work in connection with pipeline construction would be done by men, with women having only a very small portion of jobs in ancillary activities. Nevertheless, it is interesting to note the small number of native women in the labour force. In the Lower Mackenzie Region, 22 per cent of the native labour force was female, compared to 32 per cent for non-natives; in the Central Mackenzie the figures are 15 per cent and 21 per cent respectively, 12 and 32 per cent respectively, for the Upper Mackenzie Region. For the Impact Corridor as a whole, native women formed only 7 per cent of the total native labour force, as compared to 31 per cent for non-native females.

Labour force participation rates for the two populations are presented in Table 20. Native participation rates run consistently lower than those of non-natives throughout the Impact Corridor, 40 per cent for natives as opposed to 61 per cent for non-natives. Native female participation rates are consistently low, 14 per cent as compared to 39 per cent for non-native females, and the native rates for the corridor are only 64 per cent as compared to 82 per cent for non-native males. There is very little variation in the native participation rate between the individual regions, whereas there is considerable difference between the native female rates, which range from a low of 10 per cent in the Upper Mackenzie Region to a high of 18 per cent in the Lower Mackenzie Region.

Table 19

## SIZE OF THE NATIVE AND NON-NATIVE LABOUR FORCE

MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.<sup>1/</sup>

|                                     | <u>Native</u> |               |              | <u>Non-Native</u> <sup>2/</sup> |               |              |
|-------------------------------------|---------------|---------------|--------------|---------------------------------|---------------|--------------|
| <u>Lower Mackenzie Region</u>       | <u>Male</u>   | <u>Female</u> | <u>Total</u> | <u>Male</u>                     | <u>Female</u> | <u>Total</u> |
| Inuvik                              | 125           | 37            | 162          | 210                             | 99            | 309          |
| Aklavik                             | 74            | 38            | 112          | 23                              | 7             | 30           |
| Ft. McPherson                       | 87            | 13            | 100          | 8                               | 7             | 5            |
| Arctic Red River                    | 25            | 3             | 28           | N/Av                            | N/Av          | N/Av         |
| Tuktoyaktuk                         | 91            | 23            | 114          | N/Av                            | N/Av          | N/Av         |
| Total Region                        | 402           | 114           | 516          | 241                             | 113           | 354          |
| <br><u>Central Mackenzie Region</u> |               |               |              |                                 |               |              |
| Norman Wells                        | N/Av          | N/Av          | N/Av         | 31                              | 6             | 37           |
| Colville Lake                       | 15            | 2             | 17           | -                               | -             | -            |
| Ft. Franklin                        | 58            | 8             | 66           | 14                              | 5             | 19           |
| Ft. Good Hope                       | 40            | 9             | 49           | 6                               | 3             | 9            |
| Ft. Norman                          | 44            | 8             | 52           | 11                              | 3             | 14           |
| Total Region                        | 157           | 27            | 184          | 62                              | 17            | 79           |
| <br><u>Upper Mackenzie Region</u>   |               |               |              |                                 |               |              |
| Ft. Simpson                         | 48            | 9             | 57           | 24                              | 15            | 39           |
| Ft. Liard                           | 68            | 3             | 71           | 4                               | 1             | 5            |
| Ft. Providence                      | 49            | 7             | 56           | N/Av                            | N/Av          | N/Av         |
| Ft. Wrigley                         | 25            | 2             | 27           | 5                               | 2             | 7            |
| Jean Marie River                    | 8             | -             | 8            | -                               | -             | -            |
| Nahanni Butte                       | 14            | -             | 14           | -                               | -             | -            |
| Trout Lake                          | 10            | 2             | 12           | -                               | -             | -            |
| Hay River                           | 95            | 19            | 114          | 267                             | 121           | 398          |
| Total Region                        | 317           | 42            | 359          | 300                             | 139           | 439          |
| <br><u>Total Impact Corridor</u>    | <br>876       | <br>183       | <br>1,059    | <br>603                         | <br>269       | <br>872      |

1/ Those who have worked or sought work not less than 46 weeks in 12 months.

2/ Based on small sample (41 percent) of total non-native population.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 13.



Table 20

NATIVE AND NON-NATIVE LABOUR FORCE PARTICIPATION RATE (PER CENT) <sup>1/</sup>MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

|                                 | <u>Native</u> |               |              | <u>Non-Native</u> |               |              |
|---------------------------------|---------------|---------------|--------------|-------------------|---------------|--------------|
|                                 | <u>Male</u>   | <u>Female</u> | <u>Total</u> | <u>Male</u>       | <u>Female</u> | <u>Total</u> |
| <u>Lower Mackenzie Region</u>   |               |               |              |                   |               |              |
| Inuvik                          | 73.1          | 20.7          | 46.3         | 79.3              | 40.9          | 61.0         |
| Aklavik                         | 53.2          | 24.8          | 38.4         | 82.2              | 33.3          | 61.2         |
| Ft. McPherson                   | 58.4          | 8.3           | 32.8         | 100.0             | 58.3          | 75.0         |
| Arctic Red River                | 69.4          | 10.7          | 43.8         | N/Av              | N/Av          | N/Av         |
| Tuktoyaktuk                     | 64.8          | 19.5          | 44.2         | N/Av              | N/Av          | N/Av         |
| Total Region                    | 63.2          | 18.0          | 40.7         | 80.1              | 41.1          | 61.5         |
| <u>Central Mackenzie Region</u> |               |               |              |                   |               |              |
| Norman Wells                    | N/Av          | N/Av          | N/Av         | 96.9              | 21.4          | 61.7         |
| Colville Lake                   | 71.4          | 10.5          | 42.5         | -                 | -             | -            |
| Ft. Franklin                    | 64.4          | 9.6           | 38.1         | 93.3              | 38.5          | 67.9         |
| Ft. Good Hope                   | 54.1          | 12.9          | 34.0         | 85.7              | 42.9          | 64.3         |
| Ft. Norman                      | 72.1          | 14.8          | 45.2         | 91.7              | 37.5          | 70.0         |
| Total Region                    | 64.0          | 11.9          | 39.1         | 93.9              | 30.4          | 64.8         |
| <u>Upper Mackenzie Region</u>   |               |               |              |                   |               |              |
| Ft. Simpson                     | 43.6          | 9.1           | 27.3         | 77.4              | 42.9          | 59.1         |
| Ft. Liard                       | 84.0          | 6.0           | 54.2         | 80.0              | 25.0          | 55.6         |
| Ft. Providence                  | 65.3          | 9.9           | 38.4         | N/Av              | N/Av          | N/Av         |
| Ft. Wrigley                     | 52.1          | 5.4           | 31.8         | 100.0             | 50.0          | 77.8         |
| Jean Marie River                | 53.3          | -             | 50.0         | -                 | -             | -            |
| Nahanni Butte                   | 87.5          | -             | 53.9         | -                 | -             | -            |
| Trout Lake                      | 83.3          | 18.2          | 52.2         | -                 | -             | -            |
| Hay River                       | 76.0          | 19.8          | 51.6         | 81.4              | 38.8          | 60.6         |
| Total Region                    | 65.8          | 10.9          | 41.3         | 81.3              | 39.1          | 60.6         |
| <u>Total Impact Corridor</u>    | 64.3          | 14.7          | 40.6         | 82.0              | 39.2          | 61.3         |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 13.

<sup>1/</sup> Percent of population 14 years of age and over belonging to the full-time labour force - latter defined as persons working not less than 46 weeks or as looking for work for not less than 46 weeks in a year, or any combination, done for each ethnic group.

### Labour Force Age Structure

The labour force for the Impact Corridor is broken down by four-year age groups and sex and settlement in Appendix 8. From this summary, presented as Table 21, it is seen that the largest proportion of the labour force fell within the age range of 14 - 39 years of age for both population groups, averaging right around 68 per cent for both, with 32 per cent coming in the over-40 years age group. Within the native group, there were more females represented in the group 14 - 24 years, 47.5 per cent, than there were males, 27.0 per cent. In the group 25 - 39 years, native males made up nearly 40 per cent.

This may have ramifications in terms of potential native employment on the pipeline. Possibly, the rather low native male representation in 14-24 years of age group of the labour force means only that many young men were still in school or training courses. In this case, they would be counted as full-time students and not as part of the labour force. They would be an important part of the potential labour force or labour force age population, and would form a source of supply of workers with suitable training. In view of the concentration of effort by the territorial government in the field of vocational education over the past several years, it is logical to assume that a considerable proportion of young men between 14 and 24 years of age are in fact receiving training.

Since high levels of education and skill training and/or experience are required for many of the direct pipeline construction jobs, it would be natural to expect to draw more heavily from the younger men, those who might have both more training and more inclination to enter pipeline work than older men. However, as discussed more fully in Part 4 of Volume 6, there are also other factors to be taken into consideration, e.g., motivation, attitudes, and adaptation to discipline.

Table 21  
PERCENTAGE AGE DISTRIBUTION<sup>1/</sup> OF NATIVE AND NON-NATIVE LABOUR FORCE BY  
SPECIFIED AGE GROUPS FOR MACKENZIE IMPACT CORRIDOR, N.W.T.

|                                 | 14 - 24 Years |                    |       | 25 - 39 Years |                    |       | 14 - 39 Years |                    |       | 40 Years and Over |                    |       |
|---------------------------------|---------------|--------------------|-------|---------------|--------------------|-------|---------------|--------------------|-------|-------------------|--------------------|-------|
|                                 | Male          | Female<br>per cent | Total | Male          | Female<br>per cent | Total | Male          | Female<br>per cent | Total | Male              | Female<br>per cent | Total |
| <u>Lower Mackenzie Region</u>   |               |                    |       |               |                    |       |               |                    |       |                   |                    |       |
| Native                          | 28.5          | 43.0               | 31.7  | 41.2          | 28.1               | 38.3  | 69.7          | 71.1               | 70.0  | 30.3              | 28.9               | 30.0  |
| Non-Native                      | 27.3          | 31.9               | 28.7  | 42.5          | 35.4               | 40.3  | 69.8          | 67.3               | 69.0  | 30.2              | 32.7               | 31.0  |
| Total                           | 28.1          | 37.5               | 30.5  | 41.7          | 31.7               | 39.1  | 69.8          | 69.2               | 69.6  | 30.2              | 30.8               | 30.4  |
| <u>Central Mackenzie Region</u> |               |                    |       |               |                    |       |               |                    |       |                   |                    |       |
| Native                          | 24.7          | 48.2               | 28.1  | 44.3          | 37.0               | 43.2  | 69.0          | 85.2               | 71.3  | 31.0              | 14.8               | 28.7  |
| Non-Native                      | 27.4          | 41.2               | 30.4  | 41.9          | 29.4               | 39.2  | 69.3          | 70.6               | 69.6  | 30.7              | 29.4               | 30.4  |
| Total                           | 25.5          | 45.5               | 28.8  | 43.6          | 34.1               | 42.0  | 69.1          | 79.6               | 70.8  | 30.9              | 20.4               | 29.2  |
| <u>Upper Mackenzie Region</u>   |               |                    |       |               |                    |       |               |                    |       |                   |                    |       |
| Native                          | 26.2          | 59.5               | 30.1  | 36.0          | 16.7               | 33.7  | 62.2          | 76.2               | 63.8  | 37.8              | 23.8               | 36.2  |
| Non-Native                      | 15.3          | 23.7               | 18.0  | 51.3          | 41.7               | 48.3  | 66.6          | 65.4               | 66.3  | 33.4              | 34.6               | 33.7  |
| Total                           | 20.9          | 32.0               | 23.4  | 43.4          | 35.9               | 41.7  | 64.3          | 67.9               | 65.1  | 35.7              | 32.1               | 34.9  |
| <u>Total Impact Corridor</u>    |               |                    |       |               |                    |       |               |                    |       |                   |                    |       |
| Native                          | 27.0          | 47.5               | 30.5  | 39.9          | 26.8               | 37.6  | 66.9          | 74.3               | 68.1  | 33.1              | 25.7               | 31.9  |
| Non-Native                      | 21.4          | 28.3               | 23.5  | 46.8          | 38.3               | 44.2  | 68.2          | 66.6               | 67.7  | 31.8              | 33.4               | 32.3  |
| Total                           | 24.7          | 36.1               | 27.4  | 42.7          | 33.6               | 40.6  | 67.4          | 69.7               | 68.0  | 32.6              | 30.3               | 32.0  |

<sup>1/</sup> By sex, ethnic origin taken as percentage of total number in each group, i.e., native males 14 - 24 as percentage of total native males in labour force. Small sample only for non-native group.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 13.

Table 22

PER CENT OF NATIVE AND NON-NATIVE LABOUR FORCE ENGAGED IN ONE OF THE FOUR ACTIVITIES<sup>1/</sup>

FOR 46 - 52 WEEKS, IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|                          | Total Number Active <sup>1/</sup> in Labour Force<br>For 46 - 52 Weeks as percent of Total Labour Force |               |              |                                |               |              |
|--------------------------|---|---------------|--------------|--------------------------------|---------------|--------------|
|                          | <u>Native</u>   |               |              | <u>Non-Native<sup>2/</sup></u> |               |              |
|                          | <u>Male</u>   | <u>Female</u> | <u>Total</u> | <u>Male</u>                    | <u>Female</u> | <u>Total</u> |
|                          |   | percent       |              |                                | percent       |              |
| Lower Mackenzie Region   | 43.7  | 83.3          | 52.4         | 90.9                           | 93.8          | 91.8         |
| Central Mackenzie Region | 27.8  | 63.0          | 33.0         | 91.9                           | 88.2          | 91.9         |
| Upper Mackenzie Region   | 62.1  | 88.1          | 65.2         | 88.3                           | 79.8          | 85.6         |
| Total Impact Corridor    | 47.5  | 81.4          | 53.5         | 89.7                           | 86.2          | 88.6         |

1/ Those who have had either activity 1) wage employment, 2) hunting-trapping, 3) self-employment, or were 4) without work for the full 46-52 weeks.

2/ Based on sample coverage of only 41 percent of total non-native population by survey.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 13, 14.



## CHAPTER 5

ACTIVITIES OF THE CORRIDOR LABOUR FORCEActivities of the Labour Force

One of the most difficult tasks facing economists and indeed researchers in all disciplines is assessing or measuring such concepts as "work" and "productivity" among the northern native population. In the North, it is more common than not to find that the native people who put together a full year's (productive, i.e., not on social assistance) work through wage employment are easily categorized. Others may be just as gainfully occupied through a combination of seasonal wage employment, some hunting or trapping, self-employment. And, of course, there are those who pass much of the year without work; and others who pass only a portion of the year without work, possibly pursuing one or more of the main income-producing activities throughout the rest of the year.

To determine what proportion of the defined labour force may be considered as in the permanent labour force, it is necessary to look at the activities to find out what percentage is engaged full-time. An experienced labour pool from which workers could be drawn for development projects would be one in which a large proportion of the labour force was engaged in full-time wage employment.

Within the Mackenzie Impact Corridor, more than half of the native labour force (as previously defined) was engaged full-time in one of the three income-earning activities, or without work. That is 53 per cent of the corridor native labour force did one activity for the minimum 46 weeks (Table 22).<sup>1/</sup> There are definite differences. In the Central Mackenzie, more members of the labour force did a combination of activities in the 12-month period than in the other two regions. Throughout the corridor, more native females (81 per cent) were involved full-time in one of the activities for the whole year than were males (47 per cent), as opposed to just under 90 per cent for non-native males, 86 per cent for non-native females.

As expected, the non-natives were primarily engaged in wage employment, (Table 23); 90 per cent of the non-native labour force engaged for 46-52 weeks was in fact engaged in wage employment.<sup>2/</sup> Self employment emerges as the second most significant activity for non-natives.

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<sup>1/</sup> See Appendix 9 for settlement break-down of labour force activities.

<sup>2/</sup> The manpower survey covered only 41 per cent of the total non-native corridor population, therefore coverage of the non-native labour force would be correspondingly low. However, fuller coverage of non-natives would actually raise the percentage of those engaged for 46-52 weeks, e.g., full-time, in wage employment.

More important, however, is the fact that 57 per cent of the native labour force engaged full time at any one activity was engaged in wage employment. Only 20 per cent of the defined native labour force within the corridor was without work for the full 46-52 weeks.

This by no means implies that those natives engaged in wage employment full-time were in the same job throughout the period. It does, however, indicate that a significant proportion of the native labour force were wage-employees and thus somewhat experienced.

#### Seasonal Employment Patterns Among the Labour Force

One of the most persistent problems facing policy makers concerned with the economic development of the North has been that of the rather severe seasonality of work, particularly wage work, for the native population. This has resulted partly from a general lack of year-round wage jobs for much of the population; partly from natives' own preference. While short-term employment has been all that was available for many people, there are also numbers of native persons who have chosen to take wage employment only on a short-term basis.<sup>1/</sup> From an inspection of statistics showing numbers of persons working in any one month, it is difficult to determine whether those working only part of the year are doing so by choice or necessity. In any event, the seasonal pattern is usually quite apparent in most parts of the North among the native population. In the Keewatin Region, for example, seasonal employment was marked, and wage employment particularly strong in late summer-early fall, reaching a peak around October, but remaining fairly high until January (Preston, 1969; pp. 21-25).

In Tables 24, 25 the native population (all those over 14 years of age who worked) is analysed according to numbers working each month, and the native labour force is also thus analysed. "Worked" in these tables refers to the three income-producing labour force activities: wage-employment, self-employment and hunting-trapping-fishing, therefore rendering it more difficult to clearly define seasonal patterns in wage employment, for example. Nevertheless, it can be clearly seen that there were no radical fluctuations throughout the Impact Corridor on a month by month basis. For the corridor as a whole, the fewest of (all) residents worked in December; for the labour force, the month of October. Within the Upper Mackenzie and Lower Mackenzie Regions, the low period tended to be during the months of December-January for both the labour force and all residents. Possibly this is a reflection of the decrease of wage employment opportunities.<sup>2/</sup> The Central Mackenzie

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<sup>1/</sup> See Volume 6, Part 4, Appendix 1.

<sup>2/</sup> Within the past few years, since the Mackenzie Manpower Survey was taken, several factors have changed which would significantly change the seasonal patterns, particularly in the Lower Mackenzie Region. Oil exploration activities there, which occur primarily in winter months, would smooth out any winter month troughs in wage employment.

Table 23

PERCENTAGE DISTRIBUTION OF THAT PORTION OF THE LABOUR FORCE ACTIVE IN ANY ONE ACTIVITY<sup>1/</sup> FOR 46 - 52 WEEKS  
BY SPECIFIC ACTIVITY IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|                                 | Activities <sup>2/</sup> |          |       |                   |          |       |                 |          |       |              |          |       |
|---------------------------------|--------------------------|----------|-------|-------------------|----------|-------|-----------------|----------|-------|--------------|----------|-------|
|                                 | Wage and Salary          |          |       | Hunting-Trapping- |          |       | Self-Employment |          |       | Without Work |          |       |
|                                 | Employment               |          |       | Fishing           |          |       |                 |          |       |              |          |       |
|                                 | Male                     | Female   | Total | Male              | Female   | Total | Male            | Female   | Total | Male         | Female   | Total |
|                                 | Per Cent                 | Per Cent |       | Per Cent          | Per Cent |       | Per Cent        | Per Cent |       | Per Cent     | Per Cent |       |
| <u>Lower Mackenzie Region</u>   |                          |          |       |                   |          |       |                 |          |       |              |          |       |
| Native                          | 63.8                     | 80.0     | 69.4  | 17.6              | 1.0      | 11.8  | 1.7             | 3.1      | 2.2   | 17.0         | 15.8     | 16.6  |
| Non-Native <sup>3/</sup>        | 90.4                     | 98.1     | 92.9  | 1.4               | -        | 0.9   | 6.8             | 0.9      | 4.9   | 1.4          | 0.9      | 1.2   |
| <u>Central Mackenzie Region</u> |                          |          |       |                   |          |       |                 |          |       |              |          |       |
| Native                          | 70.4                     | 64.7     | 68.8  | -                 | -        | -     | -               | -        | -     | 29.5         | 35.3     | 31.1  |
| Non-Native                      | 100.0                    | 100.0    | 100.0 | -                 | -        | -     | -               | -        | -     | -            | -        | -     |
| <u>Upper Mackenzie Region</u>   |                          |          |       |                   |          |       |                 |          |       |              |          |       |
| Native                          | 35.0                     | 73.0     | 41.0  | 42.1              | -        | 35.5  | 1.0             | 2.7      | 1.3   | 21.8         | 24.3     | 22.2  |
| Non-Native                      | 83.4                     | 97.3     | 87.5  | 2.3               | -        | 1.6   | 14.3            | 2.7      | 10.9  | -            | -        | -     |
| <u>Total Impact Corridor</u>    |                          |          |       |                   |          |       |                 |          |       |              |          |       |
| Native                          | 50.8                     | 76.5     | 57.6  | 27.3              | 0.8      | 20.3  | 1.2             | 2.7      | 1.6   | 20.6         | 20.1     | 20.5  |
| Non-Native                      | 88.0                     | 97.8     | 90.9  | 1.7               | -        | 1.2   | 9.8             | 1.7      | 7.4   | 0.5          | 0.4      | 0.5   |

<sup>1/</sup> "Activity": defined as 1) wage employment, 2) hunting-trapping-fishing, 3) self-employment, 4) without work. Labour force members are those active in any one of 1 - 4, or combination, for not less than 46 weeks.

<sup>2/</sup> Those involved in any one of 1 - 4 for 46 - 52 weeks were totaled, and the per cent of the number involved in each separate activity is given here, i.e., those wage employed for 46+ weeks as percentage of total.

<sup>3/</sup> Based only on small sample of total non-native population provided by manpower survey.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables, 13, 14.

Table 24

NUMBER OF NATIVE RESIDENTS 14 YEARS OF AGE AND OVER WHO WORKED  
FULL-TIME OR PART-TIME IN EACH MONTH BY SETTLEMENT IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|                                 | January | February | March | April | May  | June | July | August | September | October | November | December | Total |
|---------------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------|
| <b>Lower Mackenzie Region</b>   |         |          |       |       |      |      |      |        |           |         |          |          |       |
| Inuvik                          | 156     | 157      | 159   | 155   | 151  | 162  | 159  | 161    | 156       | 157     | 153      | 140      | 1,866 |
| Aklavik                         | 78      | 83       | 92    | 96    | 91   | 86   | 85   | 82     | 96        | 76      | 68       | 67       | 1,000 |
| Ft. McPherson                   | 48      | 50       | 59    | 87    | 83   | 73   | 38   | 46     | 67        | 64      | 63       | 54       | 732   |
| Arctic Red River                | 21      | 23       | 26    | 28    | 26   | 25   | 21   | 20     | 23        | 22      | 23       | 20       | 278   |
| Tuktoyaktuk                     | 71      | 78       | 80    | 77    | 64   | 93   | 101  | 106    | 85        | 72      | 75       | 73       | 975   |
| Total Region                    | 374     | 391      | 416   | 443   | 415  | 439  | 404  | 415    | 427       | 391     | 382      | 354      | 4,851 |
| <b>Central Mackenzie Region</b> |         |          |       |       |      |      |      |        |           |         |          |          |       |
| Norman Wells                    | N/Av    | N/Av     | N/Av  | N/Av  | N/Av | N/Av | N/Av | N/Av   | N/Av      | N/Av    | N/Av     | N/Av     | N/Av  |
| Colville Lake                   | 11      | 8        | 7     | 2     | 4    | 6    | 14   | 11     | 2         | 3       | 6        | 9        | 83    |
| Ft. Franklin                    | 67      | 62       | 60    | 52    | 45   | 47   | 61   | 62     | 48        | 55      | 66       | 65       | 690   |
| Ft. Good Hope                   | 35      | 35       | 32    | 25    | 22   | 24   | 24   | 26     | 23        | 25      | 22       | 24       | 317   |
| Ft. Norman                      | 45      | 39       | 35    | 29    | 29   | 32   | 30   | 28     | 30        | 37      | 48       | 1        | 433   |
| Total Region                    | 158     | 144      | 134   | 108   | 100  | 109  | 129  | 127    | 103       | 120     | 142      | 149      | 1,523 |
| <b>Upper Mackenzie Region</b>   |         |          |       |       |      |      |      |        |           |         |          |          |       |
| Ft. Simpson                     | 41      | 41       | 42    | 43    | 41   | 42   | 47   | 48     | 54        | 49      | 50       | 33       | 531   |
| Ft. Liard                       | 73      | 72       | 70    | 70    | 70   | 71   | 72   | 71     | 70        | 70      | 71       | 71       | 851   |
| Ft. Providence                  | 36      | 35       | 35    | 35    | 29   | 27   | 34   | 33     | 27        | 31      | 32       | 24       | 378   |
| Ft. Wrigley                     | 15      | 15       | 10    | 10    | 9    | 13   | 13   | 10     | 12        | 18      | 11       | 14       | 150   |
| Jean Marie River                | 8       | 8        | 9     | 8     | 7    | 8    | 10   | 9      | 7         | 8       | 8        | 8        | 98    |
| Nahanni Butte                   | 13      | 13       | 14    | 14    | 14   | 14   | 12   | 11     | 11        | 13      | 14       | 13       | 156   |
| Trout Lake                      | 10      | 10       | 10    | 10    | 10   | 10   | 10   | 10     | 10        | 10      | 10       | 10       | 120   |
| Hay River                       | 87      | 81       | 80    | 75    | 77   | 87   | 105  | 113    | 95        | 73      | 69       | 82       | 1,024 |
| Total Region                    | 283     | 275      | 270   | 265   | 257  | 272  | 303  | 305    | 286       | 272     | 265      | 255      | 3,308 |
| Total Impact Corridor           | 815     | 810      | 820   | 816   | 772  | 820  | 836  | 847    | 816       | 783     | 789      | 758      | 9,682 |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 55.



Table 25

## NUMBER OF MEMBERS OF THE NATIVE LABOUR FORCE WHO WORKED

## FULL-TIME OR PART-TIME IN EACH MONTH BY SETTLEMENT IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|                                 | January | February | March | April | May  | June | July | August | September | October | November | December | Total |
|---------------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------|
| <u>Lower Mackenzie Region</u>   |         |          |       |       |      |      |      |        |           |         |          |          |       |
| Inuvik                          | 136     | 137      | 137   | 134   | 131  | 136  | 132  | 133    | 135       | 135     | 130      | 127      | 1,603 |
| Aklavik                         | 70      | 73       | 76    | 81    | 78   | 72   | 71   | 69     | 67        | 76      | 63       | 63       | 859   |
| Ft. McPherson                   | 47      | 49       | 57    | 84    | 80   | 68   | 35   | 44     | 59        | 60      | 61       | 53       | 697   |
| Arctic Red River                | 19      | 22       | 24    | 25    | 23   | 22   | 18   | 17     | 19        | 21      | 20       | 18       | 248   |
| Tuktoyaktuk                     | 64      | 70       | 73    | 71    | 57   | 80   | 79   | 85     | 63        | 75      | 69       | 68       | 854   |
| Total Region                    | 336     | 351      | 367   | 395   | 369  | 378  | 335  | 348    | 367       | 343     | 343      | 329      | 4,261 |
| <u>Central Mackenzie Region</u> |         |          |       |       |      |      |      |        |           |         |          |          |       |
| Norman Wells                    | N/Av    | N/Av     | N/Av  | N/Av  | N/Av | N/Av | N/Av | N/Av   | N/Av      | N/Av    | N/Av     | N/Av     | N/Av  |
| Colville Lake                   | 9       | 6        | 5     | 1     | 3    | 5    | 13   | 8      | 3         | 2       | 6        | 7        | 68    |
| Ft. Franklin                    | 58      | 53       | 51    | 45    | 37   | 38   | 45   | 46     | 47        | 42      | 59       | 58       | 579   |
| Ft. Good Hope                   | 35      | 35       | 32    | 25    | 22   | 24   | 24   | 26     | 24        | 21      | 22       | 24       | 314   |
| Ft. Norman                      | 42      | 36       | 34    | 27    | 27   | 29   | 27   | 25     | 32        | 28      | 39       | 44       | 390   |
| Total Region                    | 144     | 130      | 122   | 98    | 89   | 96   | 109  | 105    | 106       | 93      | 126      | 133      | 1,351 |
| <u>Upper Mackenzie Region</u>   |         |          |       |       |      |      |      |        |           |         |          |          |       |
| Ft. Simpson                     | 37      | 37       | 39    | 38    | 37   | 37   | 38   | 38     | 36        | 40      | 39       | 30       | 446   |
| Ft. Liard                       | 71      | 70       | 69    | 69    | 69   | 70   | 70   | 69     | 69        | 68      | 70       | 70       | 834   |
| Ft. Providence                  | 35      | 34       | 34    | 34    | 28   | 26   | 31   | 32     | 29        | 26      | 30       | 23       | 362   |
| Ft. Wrigley                     | 12      | 12       | 8     | 8     | 7    | 12   | 10   | 8      | 13        | 9       | 6        | 11       | 116   |
| Jean Marie River                | 8       | 8        | 8     | 7     | 7    | 8    | 7    | 7      | 8         | 7       | 8        | 8        | 91    |
| Nahanni Butte                   | 13      | 13       | 14    | 14    | 14   | 14   | 12   | 11     | 13        | 11      | 14       | 13       | 156   |
| Trout Lake                      | 10      | 10       | 10    | 10    | 10   | 10   | 10   | 10     | 10        | 10      | 10       | 10       | 120   |
| Hay River                       | 81      | 79       | 78    | 75    | 74   | 85   | 93   | 97     | 69        | 84      | 66       | 78       | 959   |
| Total Region                    | 267     | 263      | 260   | 255   | 246  | 262  | 271  | 272    | 247       | 255     | 243      | 243      | 3,084 |
| Total Impact Corridor           | 747     | 744      | 749   | 748   | 704  | 736  | 715  | 725    | 696       | 715     | 712      | 705      | 8,696 |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 55.

Region, on the other hand, did not fit this pattern. This could be a reflection of the fact that hunting-trapping activities were more important in that region than in the others.

While fluctuations in monthly work patterns among the natives were relatively insignificant, similar patterns were even less significant among the non-natives. (Tables 26, 27).

When looked at according to age groupings among the native labour force, however, some interesting variations appear. In Table 28, numbers of labour force members who worked full or part-time in each month are grouped according to the age groups 14-24, 25-39, 40 years and over. For natives the total labour force under 40 years makes a larger proportion of the total labour force active each month than does that portion over 40. However, the 40 years and over group consistently forms a larger proportion of the total working in each month than do either of the other two groups, 14-24 and 25-39. Removal of those over 40 who spend much time in hunting-trapping might significantly reduce the proportion of the group in each month (see Volume 5). It is apparent, however, that concentration of efforts to smooth out unemployment or distribute work more consistently throughout the year might be better concentrated particularly on the group under 25 years.

#### Unemployment Rate

Unemployment is usually measured for a specific point in time, and is defined as that percentage of the labour force which is looking for work. For the Northern Manpower Survey Program, a specific week was chosen for each region. For the Mackenzie Manpower Survey, the week of September 27 - October 3, 1970, was the week selected for measuring unemployment. This assessment of the situation, presented in Table 29, reveals that the last part of September was not the most ideal period in which to measure unemployment rates. Overall in the corridor, 61 per cent of the native labour force was shown as actually working as opposed to 39 per cent which was not. No particular age group shows up as having a radically higher level of employment or unemployment than any other of the specified age groups shown in Table 29, beyond the fact that the age group 12-24 years has the highest unemployment percentage for that week. This would be a reflection of the numbers of this age group who were attending school or training courses.

Viewed over the entire year, monthly, or weekly, the proportion of people without work in the corridor was generally relatively low. Further analysis based only on wage employment would, however, show a different pattern.<sup>1/</sup>

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<sup>1/</sup> Month by month analysis of trapping activities is presented in Volume 5. Subtraction of these people would give a more adequate indication of the seasonal fluctuations in wage employment.

Table 26

NUMBER OF NON-NATIVE<sup>1/</sup> RESIDENTS 14 YEARS OF AGE AND OVER WHO WORKED  
FULL-TIME OR PART-TIME IN EACH MONTH BY SETTLEMENT IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|                                 | January | February | March | April | May  | June | July | August | September | October | November | December | Total  |
|---------------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|--------|
| <u>Lower Mackenzie Region</u>   |         |          |       |       |      |      |      |        |           |         |          |          |        |
| Inuvik                          | 331     | 336      | 338   | 338   | 343  | 344  | 310  | 307    | 350       | 352     | 344      | 280      | 3,973  |
| Aklavik                         | 29      | 29       | 29    | 30    | 29   | 30   | 30   | 31     | 31        | 32      | 29       | 28       | 357    |
| Ft. McPherson                   | 15      | 15       | 16    | 16    | 15   | 15   | 14   | 13     | 14        | 15      | 15       | 15       | 178    |
| Arctic Red River                | N/Av    | N/Av     | N/Av  | N/Av  | N/Av | N/Av | N/Av | N/Av   | N/Av      | N/Av    | N/Av     | N/Av     | N/Av   |
| Tuktoyaktuk                     | N/Av    | N/Av     | N/Av  | N/Av  | N/Av | N/Av | N/Av | N/Av   | N/Av      | N/Av    | N/Av     | N/Av     | N/Av   |
| Total Region                    | 375     | 380      | 383   | 384   | 387  | 389  | 354  | 351    | 395       | 399     | 388      | 323      | 4,508  |
| <u>Central Mackenzie Region</u> |         |          |       |       |      |      |      |        |           |         |          |          |        |
| Norman Wells                    | 38      | 38       | 38    | 38    | 38   | 38   | 38   | 39     | 41        | 41      | 39       | 38       | 464    |
| Golville Lake                   | -       | -        | -     | -     | -    | -    | -    | -      | -         | -       | -        | -        | -      |
| Ft. Franklin                    | 20      | 20       | 20    | 20    | 20   | 20   | 16   | 16     | 19        | 19      | 19       | 20       | 229    |
| Ft. Good Hope                   | 10      | 10       | 11    | 11    | 10   | 10   | 10   | 8      | 10        | 10      | 10       | 9        | 119    |
| Ft. Norman                      | 14      | 15       | 15    | 14    | 14   | 14   | 15   | 16     | 15        | 15      | 14       | 14       | 175    |
| Total Region                    | 82      | 83       | 84    | 83    | 82   | 82   | 79   | 79     | 85        | 85      | 82       | 81       | 987    |
| <u>Upper Mackenzie Region</u>   |         |          |       |       |      |      |      |        |           |         |          |          |        |
| Ft. Simpson                     | 40      | 42       | 42    | 43    | 45   | 45   | 39   | 40     | 45        | 43      | 40       | 36       | 500    |
| Ft. Liard                       | 6       | 6        | 6     | 6     | 6    | 6    | 5    | 5      | 5         | 5       | 6        | 6        | 68     |
| Ft. Providence                  | N/Av    | N/Av     | N/Av  | N/Av  | N/Av | N/Av | N/Av | N/Av   | N/Av      | N/Av    | N/Av     | N/Av     | N/Av   |
| Ft. Wrigley                     | 7       | 7        | 7     | 7     | 7    | 7    | 6    | 6      | 7         | 7       | 7        | 7        | 82     |
| Jean Marie River                | -       | -        | -     | -     | -    | -    | -    | -      | -         | -       | -        | -        | -      |
| Nahanni Butte                   | -       | -        | -     | -     | -    | -    | -    | -      | -         | -       | -        | -        | -      |
| Trout Lake                      | -       | -        | -     | -     | -    | -    | -    | -      | -         | -       | -        | -        | -      |
| Hay River                       | 389     | 393      | 398   | 400   | 409  | 421  | 443  | 444    | 436       | 432     | 400      | 372      | 4,937  |
| Total Region                    | 442     | 448      | 453   | 456   | 467  | 479  | 493  | 495    | 493       | 487     | 453      | 421      | 5,587  |
| Total Impact Corridor           | 899     | 911      | 920   | 923   | 936  | 950  | 926  | 925    | 973       | 971     | 923      | 825      | 11,082 |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 55.

<sup>1/</sup> Illustrative only since only 41 per cent of total non-native corridor population covered by manpower survey.

Table 27

NUMBER OF MEMBERS OF THE NON-NATIVE<sup>1/</sup> LABOUR FORCE WHO WORKED  
FULL-TIME OR PART-TIME IN EACH MONTH BY SETTLEMENT IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|                                 | January | February | March | April | May  | June | July | August | September | October | November | December | Total |
|---------------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------|
| <u>Lower Mackenzie Region</u>   |         |          |       |       |      |      |      |        |           |         |          |          |       |
| Inuvik                          | 296     | 297      | 297   | 298   | 299  | 299  | 258  | 257    | 300       | 301     | 302      | 264      | 3,468 |
| Aklavik                         | 28      | 28       | 28    | 28    | 27   | 27   | 26   | 26     | 27        | 28      | 27       | 27       | 327   |
| Ft. McPherson                   | 14      | 14       | 14    | 14    | 13   | 13   | 12   | 12     | 13        | 14      | 14       | 14       | 161   |
| Arctic Red River                | N/Av    | N/Av     | N/Av  | N/Av  | N/Av | N/Av | N/Av | N/Av   | N/Av      | N/Av    | N/Av     | N/Av     | N/Av  |
| Tuktoyaktuk                     | N/Av    | N/Av     | N/Av  | N/Av  | N/Av | N/Av | N/Av | N/Av   | N/Av      | N/Av    | N/Av     | N/Av     | N/Av  |
| Total Region                    | 338     | 339      | 339   | 340   | 339  | 339  | 296  | 295    | 340       | 343     | 343      | 305      | 3,956 |
| <u>Central Mackenzie Region</u> |         |          |       |       |      |      |      |        |           |         |          |          |       |
| Norman Wells                    | 37      | 37       | 37    | 37    | 37   | 36   | 36   | 37     | 36        | 37      | 37       | 37       | 441   |
| Colville Lake                   | -       | -        | -     | -     | -    | -    | -    | -      | -         | -       | -        | -        | -     |
| Ft. Franklin                    | 19      | 19       | 19    | 19    | 19   | 19   | 16   | 16     | 19        | 19      | 19       | 19       | 222   |
| Ft. Good Hope                   | 9       | 9        | 9     | 9     | 9    | 9    | 9    | 7      | 9         | 9       | 9        | 9        | 106   |
| Ft. Norman                      | 14      | 14       | 14    | 14    | 14   | 14   | 14   | 14     | 14        | 14      | 14       | 14       | 168   |
| Total Region                    | 79      | 79       | 79    | 79    | 79   | 78   | 75   | 74     | 78        | 79      | 79       | 79       | 937   |
| <u>Upper Mackenzie Region</u>   |         |          |       |       |      |      |      |        |           |         |          |          |       |
| Ft. Simpson                     | 38      | 38       | 39    | 39    | 39   | 39   | 33   | 33     | 39        | 38      | 38       | 36       | 449   |
| Ft. Liard                       | 5       | 5        | 5     | 5     | 5    | 5    | 5    | 5      | 5         | 5       | 5        | 5        | 60    |
| Ft. Providence                  | N/Av    | N/Av     | N/Av  | N/Av  | N/Av | N/Av | N/Av | N/Av   | N/Av      | N/Av    | N/Av     | N/Av     | N/Av  |
| Ft. Wrigley                     | 7       | 7        | 7     | 7     | 7    | 7    | 6    | 6      | 7         | 7       | 7        | 7        | 82    |
| Jean Marie River                | -       | -        | -     | -     | -    | -    | -    | -      | -         | -       | -        | -        | -     |
| Nahanni Butte                   | -       | -        | -     | -     | -    | -    | -    | -      | -         | -       | -        | -        | -     |
| Trout Lake                      | -       | -        | -     | -     | -    | -    | -    | -      | -         | -       | -        | -        | -     |
| Hay River                       | 365     | 367      | 372   | 374   | 376  | 376  | 378  | 378    | 379       | 377     | 369      | 357      | 4,468 |
| Total Region                    | 415     | 417      | 423   | 425   | 427  | 427  | 422  | 422    | 430       | 427     | 419      | 405      | 5,059 |
| Total Impact Corridor           | 832     | 835      | 841   | 844   | 845  | 844  | 793  | 791    | 848       | 849     | 841      | 789      | 9,952 |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 55.

<sup>1/</sup> Illustrative only since only 41 per cent of total non-native corridor population covered by manpower survey.



Table 28

NUMBER OF MEMBERS OF THE NATIVE AND NON-NATIVE LABOUR FORCE WHO WORKED  
FULL-TIME OR PART-TIME IN EACH MONTH BY SELECTED  
AGE GROUP IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|           | <u>Age Group</u> | <u>Native</u> | <u>Non-Native</u> <sup>1/</sup> |
|-----------|------------------|---------------|---------------------------------|
| January   | 14-24            | 198           | 192                             |
|           | 25-39            | 289           | 372                             |
|           | 40+              | 261           | 268                             |
|           | Total            | 748           | 832                             |
| February  | 14-24            | 195           | 194                             |
|           | 25-39            | 286           | 372                             |
|           | 40+              | 264           | 269                             |
|           | Total            | 745           | 835                             |
| March     | 14-24            | 198           | 193                             |
|           | 25-39            | 291           | 376                             |
|           | 40+              | 261           | 272                             |
|           | Total            | 750           | 841                             |
| April     | 14-24            | 206           | 193                             |
|           | 25-39            | 284           | 376                             |
|           | 40+              | 259           | 275                             |
|           | Total            | 749           | 844                             |
| May       | 14-24            | 190           | 192                             |
|           | 25-39            | 263           | 377                             |
|           | 40+              | 252           | 276                             |
|           | Total            | 705           | 845                             |
| June      | 14-24            | 203           | 192                             |
|           | 25-39            | 276           | 375                             |
|           | 40+              | 258           | 277                             |
|           | Total            | 737           | 844                             |
| July      | 14-24            | 189           | 177                             |
|           | 25-39            | 282           | 349                             |
|           | 40+              | 245           | 267                             |
|           | Total            | 716           | 793                             |
| August    | 14-24            | 194           | 176                             |
|           | 25-39            | 278           | 348                             |
|           | 40+              | 254           | 267                             |
|           | Total            | 726           | 791                             |
| September | 14-24            | 197           | 193                             |
|           | 25-39            | 279           | 378                             |
|           | 40+              | 240           | 277                             |
|           | Total            | 716           | 848                             |
| October   | 14-24            | 188           | 195                             |
|           | 25-39            | 272           | 376                             |
|           | 40+              | 237           | 278                             |
|           | Total            | 697           | 849                             |
| November  | 14-24            | 183           | 190                             |
|           | 25-39            | 283           | 376                             |
|           | 40+              | 247           | 275                             |
|           | Total            | 713           | 841                             |
| December  | 14-24            | 183           | 174                             |
|           | 25-39            | 269           | 353                             |
|           | 40+              | 254           | 262                             |
|           | Total            | 706           | 789                             |
| Total     |                  | 8,708         | 9,952                           |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 -  
September 30, 1970, Table 55.

<sup>1/</sup> Sample only, based on 41 per cent sample coverage of total non-native  
population by Survey.

Table 29

NUMBER OF MEMBERS OF THE NATIVE AND NON-NATIVE LABOUR FORCE<sup>1/</sup>  
WITHOUT WORK IN A SELECTED WEEK, SEPTEMBER 27, 1970 TO OCTOBER 3, 1970,  
BY SETTLEMENT AND AGE GROUP IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|                                 | Native - Worked |       |      | Native - Didn't Work |       |      | Non-Native - Worked |       |      | Non-Native - Didn't Work |       |      |
|---------------------------------|-----------------|-------|------|----------------------|-------|------|---------------------|-------|------|--------------------------|-------|------|
|                                 | 14-24           | 25-39 | 40+  | 14-24                | 25-39 | 40+  | 14-24               | 25-39 | 40+  | 14-24                    | 25-39 | 40+  |
| <u>Lower Mackenzie Region</u>   |                 |       |      |                      |       |      |                     |       |      |                          |       |      |
| Inuvik                          | 40              | 41    | 34   | 24                   | 16    | 4    | 88                  | 116   | 92   | 5                        | 3     | 1    |
| Aklavik                         | 12              | 31    | 21   | 24                   | 13    | 9    | 3                   | 15    | 10   | -                        | -     | -    |
| Ft. McPherson                   | 15              | 27    | 14   | 10                   | 18    | 13   | 4                   | 6     | 5    | -                        | -     | -    |
| Arctic Red River                | 3               | 8     | 8    | 4                    | 5     | -    | N/Av                | N/Av  | N/Av | N/Av                     | N/Av  | N/Av |
| Tuktoyaktuk                     | 8               | 11    | 27   | 19                   | 23    | 20   | N/Av                | N/Av  | N/Av | N/Av                     | N/Av  | N/Av |
| Total Region                    | 78              | 118   | 104  | 81                   | 75    | 46   | 95                  | 137   | 107  | 5                        | 3     | 1    |
| <u>Central Mackenzie Region</u> |                 |       |      |                      |       |      |                     |       |      |                          |       |      |
| Norman Wells                    | N/Av            | N/Av  | N/Av | N/Av                 | N/Av  | N/Av | 8                   | 14    | 14   | -                        | 1     | -    |
| Colville Lake                   | -               | -     | -    | 4                    | 8     | 3    | -                   | -     | -    | -                        | -     | -    |
| Ft. Franklin                    | 15              | 18    | 14   | 7                    | 6     | 6    | 8                   | 8     | 3    | -                        | -     | -    |
| Ft. Good Hope                   | 5               | 9     | 4    | 8                    | 14    | 9    | 5                   | 3     | 1    | -                        | -     | -    |
| Ft. Norman                      | 7               | 16    | 8    | 6                    | 6     | 9    | 3                   | 5     | 6    | -                        | -     | -    |
| Total Region                    | 27              | 45    | 26   | 25                   | 34    | 27   | 24                  | 30    | 24   | -                        | 1     | -    |
| <u>Upper Mackenzie Region</u>   |                 |       |      |                      |       |      |                     |       |      |                          |       |      |
| Ft. Simpson                     | 8               | 11    | 18   | 10                   | 3     | 5    | 4                   | 21    | 13   | -                        | -     | -    |
| Ft. Liard                       | 14              | 28    | 27   | 1                    | 1     | 0    | 1                   | 4     | 0    | -                        | -     | -    |
| Ft. Providence                  | 5               | 12    | 6    | 9                    | 10    | 12   | N/Av                | N/Av  | N/Av | N/Av                     | N/Av  | N/Av |
| Ft. Wrigley                     | 2               | 2     | 5    | 4                    | 6     | 8    | 1                   | 6     | 0    | -                        | -     | -    |
| Jean Marie River                | -               | -     | 6    | 2                    | -     | -    | -                   | -     | -    | -                        | -     | -    |
| Nahanni Butte                   | 4               | 1     | 8    | 1                    | -     | -    | -                   | -     | -    | -                        | -     | -    |
| Trout Lake                      | 5               | 3     | 2    | 2                    | -     | -    | -                   | -     | -    | -                        | -     | -    |
| Hay River                       | 25              | 28    | 20   | 15                   | 13    | 12   | 69                  | 172   | 132  | 4                        | 6     | 3    |
| Total Region                    | 63              | 85    | 92   | 44                   | 33    | 37   | 75                  | 203   | 145  | 4                        | 6     | 3    |
| Total Impact Corridor           | 168             | 248   | 222  | 150                  | 142   | 110  | 194                 | 370   | 276  | 9                        | 10    | 4    |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 58.

<sup>1/</sup> Sample only, based on 41 per cent sample coverage of total non-native population by survey.

Whether for purposes of pipeline construction or for other reasons, it is evident that in developmental programs, efforts should be made to attempt to smooth out the annual fluctuations in the work force. That is, one objective should be to reduce the number of weeks without work (whatever "work" may be) in relation to the number of weeks with work. Appendix 9 shows the number of members of the labour force, by the number of weeks engaged in specific activities. Because of duplication of numbers of persons showing up in the activity groups between none and 46-52 weeks, it is difficult to obtain a clear picture of periods of unemployment (without work). Appendix 10 to present a clearer picture of native males' activities in the impact corridor.

Here, with a special computer run, the weeks spent at one or more of the main income-producing activities (wage work, trapping, self-employment) have been combined and cross-tabulated against weeks without work. In the majority of the impact communities, it is apparent that in general only relatively short-term work was available through much of the period covered by the Mackenzie Manpower Survey. Essentially, the problem seems to be one of developing means for the local residents to obtain more work of longer duration. This would be especially true in the wage employment sector, particularly if the native population is to have the opportunity to develop regular work habits, relevant experience and to learn to adapt generally to a wage employment economy.

#### Labour Force Income<sup>1/</sup>

Consistent with the dependence on wage employment for the greater part of their total earned income, the overall largest percentage of that income for the native labour force was derived from wage employment. Distribution of wage income according to income size ranges, summarized in Table 30, and in detail in Appendix 11, was essentially the same as for the population as a whole. Comparison of native labour force representation in the various income ranges with that of the total native population (Table 13, Chapter 2, above) does reveal that a slightly larger proportion of the labour force wage earnings was in the range of \$4,000-\$9,999 than for the total adult population, 26 per cent. However, only one per cent of the labour force wage earners fell in the category of \$10,000 and over - compared to 27 per cent for non-natives.

Wage income was the most important income source to the native labour force. The source of that income, i.e., by type of employer, is more difficult to determine precisely, owing to the tendency on the part of the majority of the native labour force to have a number of jobs and many different employers in the course of a year. The Mackenzie Manpower Survey made no provision for obtaining income earned from each employer, only for total wages throughout the survey period, even though provision was made for determining the different kinds of work done in the year, by employers. That is, although respondents might have indicated a number of jobs and employers within the survey year, only total wage and salary income for the year was entered.

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<sup>1/</sup> Average incomes, wage rates, fringe benefits and the overall place of wage income within the economy of the Impact Corridor are discussed in detail in Volumes 4 and 7. Labour force - as defined above, pp. 1-40 - 1-41.

Table 30

1/  
 PERCENTAGE DISTRIBUTION OF NATIVE AND NON-NATIVE LABOUR FORCE BY  
 INCOME CATEGORY, MACKENZIE IMPACT CORRIDOR, N.W.T.

(Percentage of Total Earners Within Each Income Range Groups by Ethnic Origin)

| TOTAL MACKENZIE IMPACT CORRIDOR |             |            |                 |            |                 |            |                   |            |               |            |  |         |
|---------------------------------|-------------|------------|-----------------|------------|-----------------|------------|-------------------|------------|---------------|------------|--|---------|
|                                 | \$1 - \$999 |            | \$1,000 - 3,999 |            | \$4,000 - 9,000 |            | \$10,000 and over |            | Not Specified |            |  |         |
|                                 | Native      | Non-Native | Native          | Non-Native | Native          | Non-Native | Native            | Non-Native | Native        | Non-Native |  |         |
|                                 |             |            |                 |            |                 |            |                   |            |               |            |  | percent |
| Wages and Salaries              | 22.7        | 1.2        | 41.2            | 10.7       | 25.9            | 51.5       | 1.1               | 26.7       | 9.1           | 9.9        |  |         |
| Hunting, Trapping, Fishing      | 66.5        | 18.2       | 8.7             | -          | 1.6             | 18.2       | -                 | -          | 23.2          | 63.6       |  |         |
| Self-Employment                 | 40.0        | 3.9        | 16.0            | 2.6        | -               | 27.6       | -                 | 26.3       | 44.0          | 39.5       |  |         |
| Earned Income                   | 26.4        | 1.1        | 38.3            | 10.1       | 22.7            | 49.8       | 0.8               | 26.8       | 11.8          | 12.2       |  |         |
| Unearned Income                 | 95.6        | 97.1       | 4.0             | 2.6        | -               | -          | -                 | -          | 0.4           | 0.3        |  |         |
| Total Income                    | 27.6        | 6.6        | 42.1            | 10.2       | 22.8            | 49.3       | 1.0               | 27.2       | 6.5           | 6.8        |  |         |

1/ Based on sample coverage by survey on only 41 percent of total non-native population in corridor.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 31 - 36.



Nevertheless, it is possible to obtain an indication of the amounts of wages and salaries earned within basic employer category - federal government, territorial government, private employers and self-employment. A summary by settlement for the Impact Corridor is given in Appendix 12. From Table 31, it is evident that government - both federal and territorial - was the largest employer of natives. Therefore it follows that wage employment for government was the single largest source of wage income. The reasons are obvious: government represents the largest sector of activity in the North; the private sector, even in the Mackenzie Valley, is relatively small by comparison. Pending a greater development of the private sector, government will remain the single largest employer of natives. Consequently government must necessarily attempt to fit natives into the work force in such a way that the general employment peaks and troughs smooth out, and that natives gain wage employment experience at increasingly higher levels so that the native labour force as a whole forms a larger proportion of the total labour force than at present.

Since government, now largely the territorial government, is the largest employer of natives, and also generally the source of the highest wage incomes, it will be interesting to observe how long-term native government employees will react to the possibilities of pipeline construction work when construction commences. That is, will those who now have permanent jobs at some percentage of the prevailing wage rate, choose to remain at the permanent government job, or will they attempt to obtain the higher paid pipeline-related work?<sup>1/</sup>

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<sup>1/</sup> See Volume 7 for discussion of comparative wage rates and the likely effects of pipeline-oriented employment on the local work force.

Table 31

NUMBERS<sup>1/</sup> OF NATIVE RESIDENTS 14 YEARS OF AGE AND OVER WHO REPORTED HAVING WORKED  
BY BASIC EMPLOYER CATEGORY IN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

|                          | <u>Federal Government</u> |        | <u>Territorial Government</u> |      | <u>Private Employers</u> |       | <u>Self-Employed</u> |        |       |     |    |     |
|--------------------------|---------------------------|--------|-------------------------------|------|--------------------------|-------|----------------------|--------|-------|-----|----|-----|
|                          | Male                      | Female | Total                         | Male | Female                   | Total | Male                 | Female | Total |     |    |     |
| Lower Mackenzie Region   | 95                        | 26     | 121                           | 70   | 35                       | 105   | 186                  | 115    | 301   | 60  | 16 | 76  |
| Central Mackenzie Region | 22                        | 9      | 31                            | 36   | 11                       | 47    | 61                   | 18     | 79    | 50  | 11 | 61  |
| Upper Mackenzie Region   | 69                        | 12     | 81                            | 33   | 14                       | 47    | 97                   | 40     | 137   | 125 | 6  | 131 |
| Total Corridor           | 186                       | 47     | 233                           | 139  | 60                       | 199   | 344                  | 173    | 517   | 235 | 33 | 268 |

<sup>1/</sup> Double counting occurs as many people work for more than one employer in a year. The intention here is to give only an indication of relative importance of employer sectors.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970.

BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |                                  |   |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------------------|---|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over<br>Total<br>Population |
| <b>AKLAVIK</b>                     |                           |                                  |                      |                     |                           |                                  |   |
| Treaty Indian                      | 31                        | -                                | 32                   | 63                  | 33                        | (1)                              | 42  |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | 1   |
| Eskimo                             | 84                        | (4)                              | 82                   | 166                 | 75                        | (5)                              | 83  |
| Métis                              | 32                        | (2)                              | 25                   | 57                  | 29                        | (2)                              | 27  |
| Non-Native                         | 10                        | (1)                              | 28                   | 38                  | 4                         | -                                | 21  |
| TOTAL                              | 157                       | (7)                              | 167                  | 324                 | 141                       | (8)                              | 174   |
| <b>ARCTIC RED RIVER</b>            |                           |                                  |                      |                     |                           |                                  |   |
| Treaty Indian                      | 11                        | -                                | 33                   | 44                  | 9                         | (1)                              | 24  |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | 1   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Métis                              | 6                         | -                                | 3                    | 9                   | 5                         | -                                | 3   |
| Non-Native                         | 1                         | -                                | -                    | 1                   | -                         | -                                | -   |
| TOTAL                              | 18                        | -                                | 36                   | 54                  | 14                        | (1)                              | 28  |
| <b>COLVILLE LAKE</b>               |                           |                                  |                      |                     |                           |                                  |   |
| Treaty Indian                      | 6                         | -                                | 20                   | 26                  | 5                         | -                                | 17  |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | (1)                              | 1   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Métis                              | -                         | -                                | 1                    | 1                   | -                         | -                                | 1   |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| TOTAL                              | 6                         | -                                | 21                   | 27                  | 5                         | (1)                              | 19  |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.

Appendix 1 (cont'd)

BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY-<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |                      |                     |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------|---------------------|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14 years<br>and over | Total<br>Population |
| ECHO BAY                           |                           |                                  |                      |                     |                           |                      |                     |
| Treaty Indian                      | -                         | -                                | -                    | -                   | -                         | -                    | -                   |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                    | -                   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                    | -                   |
| Métis                              | 2                         | -                                | 1                    | 3                   | -                         | -                    | -                   |
| Non-Native                         | -                         | -                                | 71                   | 71                  | 3                         | 11                   | 14                  |
| TOTAL                              | 2                         | -                                | 72                   | 74                  | 3                         | 12                   | 15                  |
| ENTERPRISE                         |                           |                                  |                      |                     |                           |                      |                     |
| Treaty Indian                      | -                         | -                                | -                    | -                   | -                         | -                    | -                   |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                    | -                   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                    | -                   |
| Métis                              | 1                         | -                                | -                    | 1                   | 1                         | -                    | 1                   |
| Non-Native                         | 11                        | (2)                              | 16                   | 27                  | 8                         | 18                   | 26                  |
| TOTAL                              | 12                        | (2)                              | 16                   | 28                  | 9                         | 18                   | 27                  |
| FORT FRANKLIN                      |                           |                                  |                      |                     |                           |                      |                     |
| Treaty Indian                      | 75                        | (4)                              | 84                   | 159                 | 77                        | 79                   | 156                 |
| Non-treaty Ind.                    | 2                         | -                                | 3                    | 5                   | -                         | 3                    | 3                   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                    | -                   |
| Métis                              | 3                         | (1)                              | 3                    | 6                   | 3                         | 1                    | 4                   |
| Non-Native                         | 12                        | (1)                              | 15                   | 27                  | 9                         | 13                   | 22                  |
| TOTAL                              | 92                        | 6                                | 105                  | 197                 | 89                        | 96                   | 185                 |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.



BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |                      |                     |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------|---------------------|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14 years<br>and over | Total<br>Population |
| FT. GOOD HOPE                      |                           |                                  |                      |                     |                           |                      |                     |
| Treaty Indian                      | 33                        | -                                | 65                   | 98                  | 50                        | (1)                  | 58                  |
| Non-treaty Ind.                    | 8                         | -                                | 7                    | 15                  | 8                         | -                    | 11                  |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                    | -                   |
| Métis                              | 10                        | -                                | 2                    | 12                  | -                         | -                    | 1                   |
| Non-Native                         | 2                         | -                                | 7                    | 9                   | 5                         | -                    | 7                   |
| TOTAL                              | 53                        | -                                | 81                   | 134                 | 63                        | (1)                  | 77                  |
| FORT LIARD                         |                           |                                  |                      |                     |                           |                      |                     |
| Treaty Indian                      | 56                        | (1)                              | 77                   | 133                 | 44                        | (3)                  | 48                  |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                    | 2                   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                    | -                   |
| Métis                              | -                         | -                                | 4                    | 4                   | 6                         | -                    | 6                   |
| Non-Native                         | 5                         | -                                | 5                    | 10                  | 1                         | -                    | 5                   |
| TOTAL                              | 61                        | (1)                              | 86                   | 147                 | 51                        | (3)                  | 54                  |
| FORT McPHERSON                     |                           |                                  |                      |                     |                           |                      |                     |
| Treaty Indian                      | 100                       | (5)                              | 135                  | 235                 | 113                       | (6)                  | 136                 |
| Non-treaty Ind.                    | 1                         | (1)                              | 3                    | 4                   | 1                         | (2)                  | 8                   |
| Eskimo                             | 4                         | -                                | 1                    | 5                   | 3                         | -                    | 2                   |
| Métis                              | 15                        | (1)                              | 10                   | 25                  | 13                        | (1)                  | 10                  |
| Non-Native                         | 7                         | -                                | 8                    | 15                  | 2                         | -                    | 12                  |
| TOTAL                              | 127                       | (7)                              | 157                  | 284                 | 132                       | (9)                  | 168                 |
| TOTAL                              |                           |                                  |                      |                     |                           |                      | 300                 |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.

## Appendix 1 (cont'd)

BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |                                  |                      |                     |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------------------|----------------------|---------------------|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population |
| <b>FORT NORMAN</b>                 |                           |                                  |                      |                     |                           |                                  |                      |                     |
| Treaty Indian                      | 28                        | (1)                              | 43                   | 71                  | 29                        | (1)                              | 38                   | 67                  |
| Non-treaty Ind.                    | 4                         | (1)                              | 13                   | 17                  | 3                         | -                                | 7                    | 10                  |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -                    | -                   |
| Métis                              | 12                        | -                                | 5                    | 17                  | 8                         | -                                | 9                    | 17                  |
| Non-Native                         | 9                         | -                                | 12                   | 21                  | 6                         | -                                | 8                    | 14                  |
| <b>TOTAL</b>                       | <b>53</b>                 | <b>(2)</b>                       | <b>73</b>            | <b>126</b>          | <b>46</b>                 | <b>(1)</b>                       | <b>62</b>            | <b>108</b>          |
| <b>FT. PROVIDENCE</b>              |                           |                                  |                      |                     |                           |                                  |                      |                     |
| Treaty Indian                      | 72                        | (2)                              | 75                   | 147                 | 66                        | (6)                              | 68                   | 134                 |
| Non-treaty Ind.                    | 4                         | -                                | -                    | 4                   | 2                         | -                                | 2                    | 4                   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -                    | -                   |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -                                | 1                    | 1                   |
| Non-Native                         | 3                         | -                                | -                    | 3                   | -                         | -                                | 1                    | 1                   |
| <b>TOTAL</b>                       | <b>79</b>                 | <b>(2)</b>                       | <b>75</b>            | <b>154</b>          | <b>68</b>                 | <b>(6)</b>                       | <b>72</b>            | <b>140</b>          |
| <b>FT. RESOLUTION</b>              |                           |                                  |                      |                     |                           |                                  |                      |                     |
| Treaty Indian                      | 58                        | (3)                              | 74                   | 132                 | 40                        | (1)                              | 55                   | 95                  |
| Non-treaty Ind.                    | 37                        | (2)                              | 52                   | 89                  | 30                        | (4)                              | 40                   | 70                  |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -                    | -                   |
| Métis                              | 40                        | (3)                              | 36                   | 76                  | 34                        | (1)                              | 37                   | 71                  |
| Non-Native                         | 17                        | -                                | 21                   | 38                  | 5                         | -                                | 22                   | 27                  |
| <b>TOTAL</b>                       | <b>152</b>                | <b>(8)</b>                       | <b>183</b>           | <b>335</b>          | <b>109</b>                | <b>(6)</b>                       | <b>154</b>           | <b>263</b>          |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.

BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |                                  |                      |                     |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------------------|----------------------|---------------------|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population |
| FORT SIMPSON                       |                           |                                  |                      |                     |                           |                                  |                      |                     |
| Treaty Indian                      | 77                        | (7)                              | 96                   | 173                 | 78                        | (4)                              | 86                   | 164                 |
| Non-treaty Ind.                    | 6                         | -                                | 2                    | 8                   | 8                         | -                                | 5                    | 13                  |
| Eskimo                             | -                         | -                                | -                    | -                   | 1                         | -                                | 1                    | 2                   |
| Métis                              | 5                         | (1)                              | 12                   | 17                  | 5                         | -                                | 7                    | 12                  |
| Non-Native                         | 27                        | -                                | 31                   | 58                  | 22                        | -                                | 35                   | 57                  |
| TOTAL                              | 115                       | (8)                              | 141                  | 256                 | 114                       | (4)                              | 134                  | 248                 |
| FORT SMITH                         |                           |                                  |                      |                     |                           |                                  |                      |                     |
| Treaty Indian                      | 41                        | (5)                              | 71                   | 112                 | 45                        | (2)                              | 58                   | 103                 |
| Non-treaty Ind.                    | 23                        | (1)                              | 38                   | 61                  | 18                        | -                                | 37                   | 55                  |
| Eskimo                             | -                         | -                                | 7                    | 7                   | 2                         | -                                | 5                    | 7                   |
| Métis                              | 124                       | (6)                              | 111                  | 235                 | 113                       | (7)                              | 121                  | 234                 |
| Non-Native                         | 236                       | (11)                             | 348                  | 584                 | 198                       | (11)                             | 338                  | 536                 |
| TOTAL                              | 424                       | (23)                             | 575                  | 999                 | 376                       | (20)                             | 559                  | 935                 |
| FORT WRIGLEY                       |                           |                                  |                      |                     |                           |                                  |                      |                     |
| Treaty Indian                      | 21                        | -                                | 48                   | 69                  | 27                        | (2)                              | 37                   | 64                  |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | -                    | -                   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -                    | -                   |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -                                | -                    | -                   |
| Non-Native                         | 5                         | -                                | 5                    | 10                  | 7                         | -                                | 4                    | 11                  |
| TOTAL                              | 26                        | -                                | 53                   | 79                  | 34                        | (2)                              | 41                   | 75                  |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.

## Appendix 1 (cont'd)

BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |                                  |                      |                     |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------------------|----------------------|---------------------|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population |
| <b>HAY RIVER</b>                   |                           |                                  |                      |                     |                           |                                  |                      |                     |
| Treaty Indian                      | 39                        | (1)                              | 63                   | 102                 | 37                        | (3)                              | 39                   | 76                  |
| Non-treaty Ind.                    | 7                         | (1)                              | 16                   | 23                  | 4                         | (1)                              | 16                   | 20                  |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -                    | -                   |
| Métis                              | 43                        | (3)                              | 46                   | 89                  | 51                        | (2)                              | 42                   | 93                  |
| Non-Native                         | 191                       | (9)                              | 328                  | 519                 | 172                       | (16)                             | 312                  | 484                 |
| TOTAL                              | 280                       | (14)                             | 453                  | 733                 | 264                       | (22)                             | 409                  | 673                 |
| <b>JEAN MARIE RIVER</b>            |                           |                                  |                      |                     |                           |                                  |                      |                     |
| Treaty Indian                      | 9                         | (1)                              | 15                   | 24                  | 12                        | (1)                              | 13                   | 25                  |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | -                    | -                   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -                    | -                   |
| Métis                              | 1                         | -                                | -                    | 1                   | -                         | -                                | -                    | -                   |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                                | -                    | -                   |
| TOTAL                              | 10                        | (1)                              | 15                   | 25                  | 12                        | (1)                              | 13                   | 25                  |
| <b>INUUVIK</b>                     |                           |                                  |                      |                     |                           |                                  |                      |                     |
| Treaty Indian                      | 17                        | -                                | 16                   | 33                  | 11                        | (1)                              | 26                   | 37                  |
| Non-treaty Ind.                    | 5                         | -                                | 3                    | 8                   | 4                         | -                                | 4                    | 8                   |
| Eskimo                             | 120                       | (4)                              | 141                  | 261                 | 131                       | (12)                             | 139                  | 270                 |
| Métis                              | 8                         | (1)                              | 11                   | 19                  | 16                        | -                                | 10                   | 26                  |
| Non-Native                         | 161                       | (12)                             | 266                  | 427                 | 135                       | (6)                              | 242                  | 377                 |
| TOTAL                              | 311                       | (17)                             | 437                  | 748                 | 297                       | (19)                             | 421                  | 718                 |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.



BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |                                  |   |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------------------|---|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over<br>Total<br>Population |
| <b>KAKISA LAKE</b>                 |                           |                                  |                      |                     |                           |                                  |   |
| Treaty Indian                      | 6                         | -                                | 14                   | 20                  | 4                         | -                                | 10  |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| <b>TOTAL</b>                       | <b>6</b>                  | <b>-</b>                         | <b>14</b>            | <b>20</b>           | <b>4</b>                  | <b>-</b>                         | <b>14</b>                                   |
| <b>LAC LA MARTRE</b>               |                           |                                  |                      |                     |                           |                                  |   |
| Treaty Indian                      | 37                        | (2)                              | 49                   | 86                  | 37                        | (4)                              | 44  |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| <b>TOTAL</b>                       | <b>37</b>                 | <b>(2)</b>                       | <b>49</b>            | <b>86</b>           | <b>37</b>                 | <b>(4)</b>                       | <b>81</b>                                   |
| <b>NAHANNI BUTTE</b>               |                           |                                  |                      |                     |                           |                                  |   |
| Treaty Indian                      | 6                         | (1)                              | 16                   | 22                  | 12                        | (1)                              | 10  |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                                | -   |
| <b>TOTAL</b>                       | <b>6</b>                  | <b>(1)</b>                       | <b>16</b>            | <b>22</b>           | <b>12</b>                 | <b>(1)</b>                       | <b>22</b>                                   |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.

## Appendix 1 (cont'd)

BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENTMACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |                                  |                      |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------------------|----------------------|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over |
| NORMAN WELLS                       |                           |                                  |                      |                     |                           |                                  |                      |
| Treaty Indian                      | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Métis                              | -                         | -                                | 1                    | 1                   | -                         | -                                | -                    |
| Non-Native                         | 26                        | -                                | 32                   | 58                  | 14                        | -                                | 28                   |
| TOTAL                              | 26                        | -                                | 33                   | 59                  | 14                        | -                                | 28                   |
| PAULATUK                           |                           |                                  |                      |                     |                           |                                  |                      |
| Treaty Indian                      | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Eskimo                             | 24                        | -                                | 16                   | 40                  | 17                        | -                                | 17                   |
| Métis                              | 1                         | -                                | -                    | 1                   | -                         | -                                | -                    |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| TOTAL                              | 25                        | -                                | 16                   | 41                  | 17                        | -                                | 17                   |
| PINE POINT                         |                           |                                  |                      |                     |                           |                                  |                      |
| Treaty Indian                      | 6                         | -                                | 4                    | 10                  | 11                        | -                                | 3                    |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | 2                    |
| Eskimo                             | -                         | -                                | 2                    | 2                   | 2                         | -                                | 4                    |
| Métis                              | 29                        | (1)                              | 20                   | 49                  | 14                        | (1)                              | 19                   |
| Non-Native                         | 142                       | (6)                              | 269                  | 411                 | 138                       | (5)                              | 219                  |
| TOTAL                              | 177                       | (7)                              | 295                  | 472                 | 165                       | (6)                              | 247                  |
|                                    |                           |                                  |                      |                     |                           |                                  | 14                   |
|                                    |                           |                                  |                      |                     |                           |                                  | 2                    |
|                                    |                           |                                  |                      |                     |                           |                                  | 6                    |
|                                    |                           |                                  |                      |                     |                           |                                  | 33                   |
|                                    |                           |                                  |                      |                     |                           |                                  | 357                  |
|                                    |                           |                                  |                      |                     |                           |                                  | 412                  |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.

Appendix 1 (cont'd)

BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |  |                     |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|--|---------------------|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup><br>and over | Total<br>Population |
| <b>RAE</b>                         |                           |                                  |                      |                     |                           |  |                     |
| Treaty Indian                      | 180                       | (8)                              | 210                  | 390                 | 187                       | (11)   | 390                 |
| Non-treaty Ind.                    | 5                         | -                                | 2                    | 7                   | 2                         | (1)  | 5                   |
| Eskimo                             | -                         | -                                | -                    | -                   | 1                         | -  | 2                   |
| Métis                              | -                         | -                                | 1                    | 1                   | 1                         | -  | 1                   |
| Non-Native                         | 3                         | -                                | 4                    | 7                   | -                         | -  | 8                   |
| TOTAL                              | 188                       | (8)                              | 217                  | 405                 | 191                       | (12)   | 406                 |
| <b>RAE LAKES</b>                   |                           |                                  |                      |                     |                           |  |                     |
| Treaty Indian                      | 12                        | (2)                              | 27                   | 39                  | 11                        | -  | 27                  |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -  | -                   |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -  | -                   |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -  | -                   |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -  | -                   |
| TOTAL                              | 12                        | (2)                              | 27                   | 39                  | 11                        | -  | 27                  |
| <b>SACHS HARBOUR</b>               |                           |                                  |                      |                     |                           |  |                     |
| Treaty Indian                      | -                         | -                                | -                    | -                   | -                         | -  | -                   |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -  | -                   |
| Eskimo                             | 28                        | (2)                              | 20                   | 48                  | 35                        | (1)  | 59                  |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -  | -                   |
| Non-Native                         | 4                         | -                                | 3                    | 7                   | 1                         | -  | 4                   |
| TOTAL                              | 32                        | (2)                              | 23                   | 55                  | 36                        | (1)  | 63                  |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.

Appendix 1 (cont'd)

BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |                                  |                      |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------------------|----------------------|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over |
|                                    |                           |                                  |                      |                     |                           |                                  | Total<br>Population  |
| SNARE LAKES                        |                           |                                  |                      |                     |                           |                                  |                      |
| Treaty Indian                      | 5                         | -                                | 6                    | 11                  | 2                         | -                                | 8                    |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| TOTAL                              | 5                         | -                                | 6                    | 11                  | 2                         | -                                | 10                   |
| SNOWDRIFT                          |                           |                                  |                      |                     |                           |                                  |                      |
| Treaty Indian                      | 48                        | (5)                              | 54                   | 102                 | 50                        | (1)                              | 36                   |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| TOTAL                              | 48                        | (5)                              | 54                   | 102                 | 50                        | (1)                              | 86                   |
| TROUT LAKE                         |                           |                                  |                      |                     |                           |                                  |                      |
| Treaty Indian                      | 7                         | -                                | 12                   | 19                  | 10                        | -                                | 11                   |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                                | -                    |
| TOTAL                              | 7                         | -                                | 12                   | 19                  | 10                        | -                                | 21                   |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.



Appendix 1 (cont'd)

BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      | FEMALE              |                           |                      |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------|
|                                    | 0 - 13<br>years<br>of age | 14<br>year<br>olds <sup>2/</sup> | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14 years<br>and over |
| <b>TUKTOYAKTUK</b>                 |                           |                                  |                      |                     |                           |                      |
| Treaty Indian                      | 3                         | (1)                              | 3                    | 6                   | 2                         | 3                    |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | 1                    |
| Eskimo                             | 122                       | (4)                              | 139                  | 261                 | 110                       | 114                  |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -                    |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                    |
| TOTAL                              | 125                       | (5)                              | 142                  | 267                 | 112                       | 118                  |
| <b>YELLOWKNIFE</b>                 |                           |                                  |                      |                     |                           |                      |
| Treaty Indian                      | 53                        | (1)                              | 88                   | 141                 | 63                        | 72                   |
| Non-treaty Ind.                    | 8                         | -                                | 8                    | 16                  | 4                         | 21                   |
| Eskimo                             | 4                         | -                                | 5                    | 9                   | 7                         | 9                    |
| Métis                              | 48                        | (2)                              | 47                   | 95                  | 33                        | 57                   |
| Non-Native                         | 619                       | (31)                             | 1,385                | 2,004               | 523                       | 1,140                |
| TOTAL                              | 732                       | (34)                             | 1,533                | 2,265               | 630                       | 1,299                |
| <b>YELLOWKNIFE VILLAGE</b>         |                           |                                  |                      |                     |                           |                      |
| Treaty Indian                      | 25                        | -                                | 30                   | 55                  | 24                        | 22                   |
| Non-treaty Ind.                    | -                         | -                                | -                    | -                   | -                         | -                    |
| Eskimo                             | -                         | -                                | -                    | -                   | -                         | -                    |
| Métis                              | -                         | -                                | -                    | -                   | -                         | -                    |
| Non-Native                         | -                         | -                                | -                    | -                   | -                         | -                    |
| TOTAL                              | 25                        | -                                | 30                   | 55                  | 24                        | 22                   |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970 persons, 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.

## Appendix 1 (cont'd)

BREAKDOWN OF POPULATION BY SPECIFIED AGE GROUP,  
SEX, ETHNIC ORIGIN AND SETTLEMENT

MACKENZIE MANPOWER SURVEY<sup>1/</sup>

| Settlement<br>and<br>Ethnic Origin | MALE                      |                                  |                      |                     | FEMALE                    |                      |                     |
|------------------------------------|---------------------------|----------------------------------|----------------------|---------------------|---------------------------|----------------------|---------------------|
|                                    | 0 - 13<br>years<br>of age | 14<br>year <sup>2/</sup><br>olds | 14 years<br>and over | Total<br>Population | 0 - 13<br>years<br>of age | 14 years<br>and over | Total<br>Population |
| TOTAL, ALL SETTLEMENTS             |                           |                                  |                      |                     |                           |                      |                     |
| Treaty Indian                      | 1,062                     | (50)                             | 1,460                | 2,522               | 1,089                     | 1,262                | 2,351               |
| Non-treaty Ind.                    | 110                       | (6)                              | 147                  | 257                 | 84                        | 166                  | 250                 |
| Eskimo                             | 386                       | (14)                             | 413                  | 799                 | 384                       | 399                  | 783                 |
| Métis                              | 380                       | (21)                             | 339                  | 719                 | 332                       | 346                  | 678                 |
| Non-Native                         | 1,491                     | (73)                             | 2,854                | 4,345               | 1,253                     | 2,446                | 3,699               |
| TOTAL                              | 3,426                     | (164)                            | 5,213                | 8,642               | 3,142                     | 4,619                | 7,761               |

<sup>1/</sup> DIAND Mackenzie Manpower Survey, November 1970; survey reference year October 1, 1969 - September 30, 1970, persons 14 years of age as of December 31, 1969 counted as adults and thus full questionnaire administered.

<sup>2/</sup> Counted in column headed 14 years and over.

POPULATION BY AGE GROUP, ETHNIC STATUS AND SEX,  
MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

LOWER MACKENZIE REGION

|             | INUUVIK   |        |            | AKLAVIK |        |            | FT. MCPHERSON |        |            |
|-------------|-----------|--------|------------|---------|--------|------------|---------------|--------|------------|
|             | Age Group | Native | Non-Native | Total   | Native | Non-Native | Total         | Native | Non-Native |
| MALE        | 0-14      | 155    | 173        | 328     | 153    | 11         | 164           | 127    | 7          |
|             | 15-19     | 35     | 28         | 63      | 26     | 1          | 27            | 22     | -          |
|             | 20-24     | 39     | 60         | 99      | 18     | 3          | 21            | 23     | 3          |
|             | 25-29     | 19     | 45         | 64      | 19     | 5          | 24            | 21     | 2          |
|             | 30-34     | 16     | 23         | 39      | 14     | 5          | 19            | 12     | -          |
|             | 35-39     | 17     | 28         | 45      | 13     | -          | 13            | 18     | 1          |
|             | 40-44     | 10     | 22         | 32      | 8      | 1          | 9             | 7      | 1          |
|             | 45-49     | 10     | 14         | 24      | 8      | 1          | 9             | 11     | -          |
|             | 50-54     | 11     | 9          | 20      | 4      | 2          | 6             | 4      | -          |
|             | 55-59     | 3      | 8          | 11      | 2      | 1          | 3             | 4      | -          |
|             | 60-64     | 2      | 6          | 8       | 3      | 1          | 4             | 4      | 1          |
|             | 65 +      | 4      | 11         | 15      | 18     | 7          | 25            | 16     | -          |
|             | TOTAL     | 321    | 427        | 748     | 286    | 38         | 324           | 269    | 15         |
| FEMALE      | 0-14      | 175    | 141        | 316     | 145    | 4          | 149           | 139    | 2          |
|             | 15-19     | 42     | 31         | 73      | 24     | 1          | 25            | 26     | 1          |
|             | 20-24     | 28     | 55         | 83      | 23     | 3          | 26            | 21     | 2          |
|             | 25-29     | 16     | 34         | 50      | 20     | 6          | 26            | 21     | 3          |
|             | 30-34     | 18     | 31         | 49      | 16     | 2          | 18            | 16     | 2          |
|             | 35-39     | 17     | 21         | 38      | 14     | -          | 14            | 14     | -          |
|             | 40-44     | 8      | 21         | 29      | 9      | 3          | 12            | 8      | 2          |
|             | 45-49     | 12     | 19         | 31      | 10     | 1          | 11            | 11     | 1          |
|             | 50-54     | 9      | 8          | 17      | 10     | -          | 10            | 6      | -          |
|             | 55-59     | 8      | 6          | 14      | 5      | 1          | 6             | 4      | 1          |
|             | 60-64     | 1      | 4          | 5       | 3      | 1          | 4             | 4      | -          |
|             | 65 +      | 7      | 6          | 13      | 11     | 3          | 14            | 16     | -          |
|             | TOTAL     | 341    | 377        | 718     | 290    | 25         | 315           | 286    | 14         |
| GRAND TOTAL |           | 662    | 804        | 1,466   | 576    | 63         | 639           | 555    | 29         |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970 Table 1.

## APPENDIX 2 (cont'd)

POPULATION BY AGE GROUP, ETHNIC STATUS AND SEX,  
MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## LOWER MACKENZIE REGION

|             | ARCTIC RED RIVER |        |            |       | TUKTOYAKTUK |            |       | TOTAL LOWER MACKENZIE |            |       |
|-------------|------------------|--------|------------|-------|-------------|------------|-------|-----------------------|------------|-------|
|             | Age Group        | Native | Non-Native | Total | Native      | Non-Native | Total | Native                | Non-Native | Total |
| MALE        | 0-14             | 17     |            |       | 130         |            | 130   | 582                   | 191        | 773   |
|             | 15-19            | 4      |            | 4     | 34          |            | 34    | 121                   | 29         | 150   |
|             | 20-24            | 3      |            | 3     | 21          |            | 21    | 104                   | 66         | 170   |
|             | 25-29            | 3      |            | 3     | 17          |            | 17    | 79                    | 52         | 131   |
|             | 30-34            | 10     |            | 10    | 11          |            | 11    | 63                    | 28         | 91    |
|             | 25-39            | 1      |            | 1     | 6           |            | 6     | 55                    | 29         | 84    |
|             | 40-44            | 4      | N/Av       | 4     | 12          | N/Av       | 12    | 41                    | 24         | 65    |
|             | 45-49            | 2      |            | 2     | 15          |            | 15    | 46                    | 15         | 61    |
|             | 50-54            | 1      |            | 1     | 6           |            | 6     | 26                    | 11         | 37    |
|             | 55-59            | 4      |            | 4     | 10          |            | 10    | 23                    | 9          | 32    |
|             | 60-64            | 2      |            | 2     | 2           |            | 2     | 13                    | 8          | 21    |
|             | 65 +             | 2      |            | 2     | 3           |            | 3     | 43                    | 18         | 61    |
|             | TOTAL            | 53     |            | 53    | 267         |            | 267   | 1,196                 | 480        | 1,676 |
| FEMALE      | 0-14             | 15     |            | 15    | 121         |            | 121   | 595                   | 147        | 742   |
|             | 15-19            | 3      |            | 3     | 27          |            | 27    | 122                   | 33         | 155   |
|             | 20-24            | 5      |            | 5     | 16          |            | 16    | 93                    | 60         | 153   |
|             | 25-29            | 3      |            | 3     | 13          |            | 13    | 73                    | 43         | 116   |
|             | 30-34            | 4      |            | 4     | 9           |            | 9     | 63                    | 35         | 98    |
|             | 35-39            | 3      |            | 3     | 7           |            | 7     | 55                    | 21         | 76    |
|             | 40-44            | -      | N/Av       | -     | 5           | N/Av       | 5     | 30                    | 26         | 56    |
|             | 45-49            | 1      |            | 1     | 14          |            | 14    | 48                    | 21         | 69    |
|             | 50-54            | -      |            | -     | 9           |            | 9     | 34                    | 8          | 42    |
|             | 55-59            | 2      |            | 2     | 5           |            | 5     | 24                    | 8          | 32    |
|             | 60-64            | 1      |            | 1     | 1           |            | 1     | 10                    | 5          | 15    |
|             | 65 +             | 5      |            | 5     | 3           |            | 3     | 42                    | 9          | 51    |
|             | TOTAL            | 42     |            | 42    | 230         |            | 230   | 1,189                 | 416        | 1,605 |
| GRAND TOTAL |                  | 95     | N/Av       | 95    | 497         | N/Av       | 497   | 2,385                 | 896        | 3,281 |



POPULATION BY AGE GROUP, ETHNIC STATUS AND SEX,  
MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

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CENTRAL MACKENZIE REGION

FT. FRANKLIN

COLVILLE LAKE

NORMAN WELLS

|             | NORMAN WELLS |            |       | COLVILLE LAKE |            |       | FT. FRANKLIN |            |       |
|-------------|--------------|------------|-------|---------------|------------|-------|--------------|------------|-------|
| Age Group   | Native       | Non-Native | Total | Native        | Non-Native | Total | Native       | Non-Native | Total |
| MALE        |              |            |       |               |            |       |              |            |       |
| 0-14        |              | 26         | 26    | 6             | -          | 6     | 85           | 13         | 98    |
| 15-19       |              | 1          | 1     | -             | -          | -     | 14           | 2          | 16    |
| 20-24       |              | 6          | 6     | 4             | -          | 4     | 15           | 3          | 18    |
| 25-29       |              | 7          | 7     | 2             | -          | 2     | 10           | 2          | 12    |
| 30-34       |              | 2          | 2     | 3             | -          | 3     | 5            | 2          | 7     |
| 35-39       |              | 5          |       | 3             | -          | 3     | 9            | 2          | 11    |
| 40-44       | N/Av         | 3          | 3     | 1             | -          | 1     | 5            | 1          | 6     |
| 45-49       |              | 5          | 5     | 1             | -          | 1     | 4            | -          | 4     |
| 50-54       |              | -          | -     | -             | -          | -     | 5            | -          | 5     |
| 55-59       |              | 1          | 1     | 2             | -          | 2     | 3            | 2          | 5     |
| 60-64       |              | 2          | 2     | 2             | -          | 2     | 5            | -          | 5     |
| 65 +        |              | -          | -     | 3             | -          | 3     | 10           | -          | 10    |
| TOTAL       |              | 58         | 58    | 27            | -          | 27    | 170          | 27         | 197   |
| FEMALE      |              |            |       |               |            |       |              |            |       |
| 0-14        |              | 14         | 14    | 6             | -          | 6     | 84           | 9          | 93    |
| 15-19       |              | 2          | 2     | -             | -          | -     | 17           | 1          | 18    |
| 20-24       |              | 4          | 4     | 2             | -          | 2     | 10           | 7          | 17    |
| 25-29       |              | 4          | 4     | 4             | -          | 4     | 7            | 2          | 9     |
| 30-34       |              | 4          | 4     | 2             | -          | 2     | 8            | 1          | 9     |
| 35-39       |              | 3          | 3     | 2             | -          | 2     | 10           | 1          | 11    |
| 40-44       | N/Av         | 6          | 6     | 1             | -          | 1     | 6            | 1          | 7     |
| 45-49       |              | 4          | 4     | -             | -          | -     | 6            | -          | 6     |
| 50-54       |              | -          | -     | -             | -          | -     | 6            | -          | 6     |
| 55-59       |              | -          | -     | -             | -          | -     | 5            | -          | 5     |
| 60-64       |              | 1          | 1     | 4             | -          | 4     | 1            | -          | 1     |
| 65 +        |              | -          | -     | 3             | -          | 3     | 3            | -          | 3     |
| TOTAL       |              | 42         | 42    | 24            | -          | 24    | 163          | 22         | 185   |
| GRAND TOTAL | N/Av         | 100        | 101   | 51            | -          | 51    | 333          | 49         | 382   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 1.

## APPENDIX 2 (cont'd)

POPULATION BY AGE GROUP, ETHNIC STATUS AND SEX,  
MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## CENTRAL MACKENZIE REGION

|        | FT. GOOD HOPE |        |            |       | FT. NORMAN |            |       |  | TOTAL CENTRAL MACKENZIE |            |       |  |
|--------|---------------|--------|------------|-------|------------|------------|-------|--|-------------------------|------------|-------|--|
|        | Age Group     | Native | Non-Native | Total | Native     | Non-Native | Total |  | Native                  | Non-Native | Total |  |
| MALE   | 0-14          | 51     | 2          | 53    | 46         | 9          | 55    |  | 188                     | 50         | 238   |  |
|        | 15-19         | 14     | -          | 14    | 7          | 1          | 8     |  | 35                      | 4          | 39    |  |
|        | 20-24         | 7      | 2          | 9     | 12         | 2          | 14    |  | 38                      | 13         | 51    |  |
|        | 25-29         | 3      | 3          | 6     | 6          | 2          | 8     |  | 21                      | 14         | 35    |  |
|        | 30-34         | 8      | 1          | 9     | 6          | 2          | 8     |  | 22                      | 7          | 29    |  |
|        | 35-39         | 11     | -          | 11    | 7          | 1          | 8     |  | 30                      | 8          | 38    |  |
|        | 40-44         | 5      | -          | 5     | 4          | 1          | 5     |  | 15                      | 5          | 20    |  |
|        | 45-49         | 2      | -          | 2     | 1          | 1          | 2     |  | 8                       | 6          | 14    |  |
|        | 50-54         | 6      | 1          | 7     | 1          | -          | 1     |  | 12                      | 1          | 13    |  |
|        | 55-59         | 1      | -          | 1     | 4          | 1          | 5     |  | 10                      | 4          | 14    |  |
|        | 60-64         | 7      | -          | 7     | 6          | 1          | 7     |  | 20                      | 3          | 23    |  |
|        | 65 +          | 10     | -          | 10    | 5          | -          | 5     |  | 28                      | -          | 28    |  |
|        | TOTAL         | 125    | 9          | 134   | 105        | 21         | 126   |  | 427                     | 115        | 542   |  |
| FEMALE | 0-14          | 59     | 5          | 64    | 41         | 6          | 47    |  | 190                     | 34         | 224   |  |
|        | 15-19         | 14     | -          | 14    | 8          | -          | 8     |  | 39                      | 3          | 42    |  |
|        | 20-24         | 4      | 5          | 9     | 4          | -          | 4     |  | 20                      | 16         | 36    |  |
|        | 25-29         | 7      | -          | 7     | 7          | 3          | 10    |  | 25                      | 9          | 34    |  |
|        | 30-34         | 7      | 1          | 8     | 7          | 1          | 8     |  | 24                      | 7          | 31    |  |
|        | 35-39         | 10     | -          | 10    | 7          | 1          | 8     |  | 29                      | 5          | 34    |  |
|        | 40-44         | 5      | -          | 5     | 4          | 1          | 5     |  | 16                      | 8          | 24    |  |
|        | 45-49         | 4      | 1          | 5     | 1          | -          | 1     |  | 11                      | 5          | 16    |  |
|        | 50-54         | 3      | -          | 3     | 1          | 1          | 2     |  | 10                      | 1          | 11    |  |
|        | 55-59         | 6      | -          | 6     | 2          | -          | 2     |  | 13                      | -          | 13    |  |
|        | 60-64         | 1      | -          | 1     | 3          | -          | 3     |  | 9                       | 1          | 10    |  |
|        | 65 +          | 8      | -          | 8     | 9          | 1          | 10    |  | 23                      | 1          | 24    |  |
|        | TOTAL         | 128    | 12         | 140   | 94         | 14         | 108   |  | 409                     | 90         | 499   |  |
|        | GRAND TOTAL   | 253    | 21         | 274   | 199        | 35         | 234   |  | 836                     | 205        | 1,041 |  |

## APPENDIX 2 (cont'd)

POPULATION BY AGE GROUP, ETHNIC STATUS AND SEX,  
MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## UPPER MACKENZIE REGION

|             | FT. SIMPSON |        |            | FT. LIARD |        |            | FT. PROVIDENCE |        |            |
|-------------|-------------|--------|------------|-----------|--------|------------|----------------|--------|------------|
|             | Age Group   | Native | Non-Native | Total     | Native | Non-Native | Total          | Native | Non-Native |
| MALE        | 0-14        | 96     | 27         | 123       | 57     | 5          | 62             | 78     |            |
|             | 15-19       | 28     | 1          | 29        | 17     | -          | 17             | -      |            |
|             | 20-24       | 12     | 3          | 15        | 5      | 1          | 6              | 12     |            |
|             | 25-29       | 10     | 8          | 18        | 9      | 1          | 10             | 7      |            |
|             | 30-34       | 5      | 7          | 12        | 11     | 1          | 12             | 7      |            |
|             | 35-39       | 8      | 4          | 12        | 9      | 1          | 10             | 11     |            |
|             | 40-44       | 7      | 5          | 12        | 9      | -          | 9              | 10     |            |
|             | 45-49       | 9      | 1          | 10        | 1      | -          | 1              | 7      |            |
|             | 50-54       | 6      | -          | 6         | 6      | -          | 6              | 1      |            |
|             | 55-59       | 6      | -          | 6         | 3      | -          | 3              | 5      |            |
|             | 60-64       | 3      | -          | 3         | 3      | 1          | 4              | 2      |            |
|             | 65 +        | 8      | 2          | 10        | 7      | -          | 7              | 11     |            |
|             | TOTAL       | 198    | 58         | 256       | 137    | 10         | 147            | 151    |            |
| FEMALE      | 0-14        | 96     | 22         | 118       | 53     | 1          | 54             | 74     |            |
|             | 15-19       | 25     | 1          | 26        | 3      | -          | 3              | 9      |            |
|             | 20-24       | 8      | 7          | 15        | 9      | 1          | 10             | 9      |            |
|             | 25-29       | 8      | 8          | 16        | 9      | -          | 9              | 5      |            |
|             | 30-34       | 10     | 4          | 14        | 4      | 3          | 7              | 8      |            |
|             | 35-39       | 8      | 3          | 11        | 6      | -          | 6              | 8      |            |
|             | 40-44       | 10     | 1          | 11        | 1      | -          | 1              | 4      |            |
|             | 45-49       | 6      | 3          | 9         | 2      | -          | 2              | 7      |            |
|             | 50-54       | 4      | 3          | 7         | 1      | -          | 1              | 2      |            |
|             | 55-59       | 3      | 3          | 6         | 3      | -          | 3              | 3      |            |
|             | 60-64       | 4      | -          | 4         | 4      | -          | 4              | 2      |            |
|             | 65 +        | 9      | 2          | 11        | 5      | -          | 5              | 8      |            |
|             | TOTAL       | 191    | 57         | 248       | 100    | 5          | 105            | 139    |            |
| GRAND TOTAL |             | 389    | 115        | 504       | 237    | 15         | 252            | 290    |            |
|             |             |        |            |           |        |            |                |        | N/Av       |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 1.

## APPENDIX 2 (cont'd)

POPULATION BY AGE GROUP, ETHNIC STATUS AND SEX,  
MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## UPPER MACKENZIE REGION

|             | FT. WRIGLEY |            |       | JEAN MARIE RIVER |            |       | NAHANNI BUTTE |            |       |
|-------------|-------------|------------|-------|------------------|------------|-------|---------------|------------|-------|
| Age Group   | Native      | Non-Native | Total | Native           | Non-Native | Total | Native        | Non-Native | Total |
| MALE        |             |            |       |                  |            |       |               |            |       |
| 0-14        | 21          | 5          | 26    | 11               | 0          | 11    | 7             | 0          | 7     |
| 15-19       | 9           | 0          | 9     | 3                | 0          | 3     | 3             | 0          | 3     |
| 20-24       | 5           | 0          | 5     | 3                | 0          | 3     | 3             | 0          | 3     |
| 25-29       | 5           | 4          | 9     | 0                | 0          | 0     | 1             | 0          | 1     |
| 30-34       | 3           | 0          | 3     | 1                | 0          | 1     | 0             | 0          | 0     |
| 35-39       | 1           | 1          | 2     | 1                | 0          | 1     | 0             | 0          | 0     |
| 40-44       | 4           | 0          | 4     | 0                | 0          | 0     | 1             | 0          | 1     |
| 45-49       | 4           | 0          | 4     | 1                | 0          | 1     | 1             | 0          | 1     |
| 50-54       | 5           | 0          | 5     | 2                | 0          | 2     | 3             | 0          | 3     |
| 55-59       | 5           | 0          | 5     | 1                | 0          | 1     | 1             | 0          | 1     |
| 60-64       | 3           | 0          | 3     | 2                | 0          | 2     | 2             | 0          | 2     |
| 65 +        | 4           | 0          | 4     | 0                | 0          | 0     | 0             | 0          | 0     |
| TOTAL       | 69          | 10         | 79    | 25               | 0          | 25    | 22            | 0          | 22    |
| FEMALE      |             |            |       |                  |            |       |               |            |       |
| 0-14        | 29          | 7          | 36    | 13               | 0          | 13    | 13            | 0          | 13    |
| 15-19       | 10          | 0          | 10    | 5                | 0          | 5     | 2             | 0          | 2     |
| 20-24       | 4           | 1          | 5     | 1                | 0          | 1     | 1             | 0          | 1     |
| 25-29       | 0           | 3          | 3     | 0                | 0          | 0     | 0             | 0          | 0     |
| 30-34       | 3           | 0          | 3     | 0                | 0          | 0     | 1             | 0          | 1     |
| 35-39       | 2           | 0          | 2     | 1                | 0          | 1     | 1             | 0          | 1     |
| 40-44       | 6           | 0          | 6     | 2                | 0          | 2     | 0             | 0          | 0     |
| 45-49       | 2           | 0          | 2     | 1                | 0          | 1     | 2             | 0          | 2     |
| 50-54       | 1           | 0          | 1     | 1                | 0          | 1     | 2             | 0          | 2     |
| 55-59       | 1           | 0          | 1     | 0                | 0          | 0     | 0             | 0          | 0     |
| 60-64       | 1           | 0          | 1     | 0                | 0          | 0     | 0             | 0          | 0     |
| 65 +        | 5           | 0          | 5     | 1                | 0          | 1     | 0             | 0          | 0     |
| TOTAL       | 64          | 11         | 75    | 25               | 0          | 25    | 22            | 0          | 22    |
| GRAND TOTAL | 133         | 21         | 154   | 50               | 0          | 50    | 44            | 0          | 44    |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 1.



POPULATION BY AGE GROUP, ETHNIC STATUS AND SEX,  
MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

UPPER MACKENZIE REGION

|             | TROUT LAKE |        |            | HAY RIVER |        |            | TOTAL UPPER MACKENZIE |        |            |
|-------------|------------|--------|------------|-----------|--------|------------|-----------------------|--------|------------|
|             | Age Group  | Native | Non-Native | Total     | Native | Non-Native | Total                 | Native | Non-Native |
| MALE        | 0-14       | 7      | 0          | 7         | 94     | 200        | 294                   | 371    | 237        |
|             | 15-19      | 2      | 0          | 2         | 18     | 44         | 62                    | 80     | 45         |
|             | 20-24      | 3      | 0          | 3         | 17     | 36         | 53                    | 60     | 40         |
|             | 25-29      | 0      | 0          | 0         | 13     | 54         | 67                    | 45     | 67         |
|             | 30-34      | 2      | 0          | 2         | 10     | 44         | 54                    | 39     | 52         |
|             | 35-39      | 1      | 0          | 1         | 17     | 37         | 54                    | 48     | 43         |
|             | 40-44      | 2      | 0          | 2         | 6      | 31         | 37                    | 39     | 36         |
|             | 45-49      | 0      | 0          | 0         | 6      | 25         | 31                    | 29     | 26         |
|             | 50-54      | 0      | 0          | 0         | 9      | 20         | 29                    | 27     | 20         |
|             | 55-59      | 0      | 0          | 0         | 5      | 16         | 21                    | 31     | 16         |
|             | 60-64      | 1      | 0          | 1         | 5      | 6          | 11                    | 21     | 7          |
|             | 65 +       | 1      | 0          | 1         | 14     | 6          | 20                    | 45     | 8          |
|             | TOTAL      | 19     | 0          | 19        | 214    | 519        | 733                   | 835    | 597        |
|             |            |        |            |           |        |            |                       |        | 1,432      |
| FEMALE      | 0-14       | 10     | 0          | 10        | 98     | 188        | 286                   | 386    | 218        |
|             | 15-19      | 2      | 0          | 2         | 18     | 36         | 54                    | 74     | 37         |
|             | 20-24      | 1      | 0          | 1         | 13     | 52         | 65                    | 46     | 61         |
|             | 25-29      | 1      | 0          | 1         | 10     | 49         | 59                    | 33     | 61         |
|             | 30-34      | 1      | 0          | 1         | 9      | 45         | 54                    | 36     | 52         |
|             | 35-39      | 1      | 0          | 1         | 9      | 32         | 41                    | 36     | 35         |
|             | 40-44      | 1      | 0          | 1         | 5      | 28         | 33                    | 29     | 29         |
|             | 45-49      | 1      | 0          | 1         | 8      | 26         | 34                    | 29     | 29         |
|             | 50-54      | 0      | 0          | 0         | 3      | 18         | 21                    | 14     | 21         |
|             | 55-59      | 1      | 0          | 1         | 7      | 5          | 12                    | 18     | 8          |
|             | 60-64      | 0      | 0          | 0         | 3      | 2          | 5                     | 14     | 2          |
|             | 65 +       | 2      | 0          | 2         | 6      | 3          | 9                     | 36     | 5          |
|             | TOTAL      | 21     | 0          | 21        | 189    | 484        | 673                   | 751    | 558        |
|             |            |        |            |           |        |            |                       |        | 1,309      |
| GRAND TOTAL |            | 40     | 0          | 40        | 403    | 1,003      | 1,406                 | 1,586  | 1,155      |
|             |            |        |            |           |        |            |                       |        | 2,741      |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 1.

## Appendix 3

## FAMILIES BY SIZE AND BY ETHNIC ORIGIN IN MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

| Settlement                          | LOWER MACKENZIE REGION |     |    |    |    |    |    |    |    |    |    |    |           |
|-------------------------------------|------------------------|-----|----|----|----|----|----|----|----|----|----|----|-----------|
|                                     | PERSONS PER FAMILY     |     |    |    |    |    |    |    |    |    |    |    |           |
|                                     | 1                      | 2   | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13+ TOTAL |
| <b>Aklavik</b>                      |                        |     |    |    |    |    |    |    |    |    |    |    |           |
| Native                              | 20                     | 8   | 12 | 11 | 10 | 9  | 12 | 6  | 5  | 3  | 1  | -  | 9 106     |
| Non-Native                          | 12                     | 6   | 2  | 4  | 3  | -  | -  | -  | 1  | 1  | -  | -  | - 29      |
| Total                               | 32                     | 14  | 14 | 15 | 13 | 9  | 12 | 6  | 6  | 4  | 1  | -  | 9 135     |
| <b>Arctic Red River</b>             |                        |     |    |    |    |    |    |    |    |    |    |    |           |
| Native                              | 18                     | 5   | 6  | 2  | 2  | 1  | 2  | -  | -  | -  | -  | 1  | - 37      |
| Non-Native                          | -                      | -   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - --      |
| Total                               | 18                     | 5   | 6  | 2  | 2  | 1  | 2  | -  | -  | -  | -  | 1  | - 37      |
| <b>Ft. McPherson</b>                |                        |     |    |    |    |    |    |    |    |    |    |    |           |
| Native                              | 70                     | 19  | 16 | 13 | 8  | 8  | 11 | 8  | 5  | 4  | 3  | -  | - 165     |
| Non-Native                          | 11                     | 3   | -  | 1  | -  | -  | -  | 1  | -  | -  | -  | -  | - 16      |
| Total                               | 81                     | 22  | 16 | 14 | 8  | 8  | 11 | 9  | 5  | 4  | 3  | -  | - 181     |
| <b>Inuvik</b>                       |                        |     |    |    |    |    |    |    |    |    |    |    |           |
| Native                              | 42                     | 10  | 6  | 11 | 6  | 10 | 5  | 13 | 7  | 10 | 5  | 1  | 5 131     |
| Non-Native                          | 133                    | 42  | 32 | 29 | 26 | 12 | 11 | 4  | 4  | -  | -  | 2  | 1 296     |
| Total                               | 175                    | 52  | 38 | 40 | 32 | 22 | 16 | 17 | 11 | 10 | 5  | 3  | 6 472     |
| <b>Tuktoyaktuk</b>                  |                        |     |    |    |    |    |    |    |    |    |    |    |           |
| Native                              | 13                     | 7   | 8  | 9  | 9  | 9  | 9  | 9  | 9  | 3  | 4  | 2  | 1 90      |
| Non-Native                          | -                      | -   | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - --      |
| Total                               | 13                     | 7   | 8  | 9  | 9  | 9  | 9  | 9  | 9  | 3  | 4  | 2  | 1 90      |
| <b>Total Lower Mackenzie Region</b> |                        |     |    |    |    |    |    |    |    |    |    |    |           |
| Native                              | 163                    | 49  | 48 | 46 | 35 | 37 | 39 | 36 | 24 | 20 | 13 | 4  | 15 529    |
| Non-Native                          | 156                    | 51  | 34 | 34 | 29 | 12 | 11 | 5  | 5  | 1  | -  | 2  | 1 341     |
| Total                               | 319                    | 100 | 82 | 80 | 64 | 49 | 50 | 41 | 29 | 21 | 13 | 6  | 16 870    |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 5.

Note: Boarders who were financially independent, such as teachers or nurses in residences, employees living in bunkhouses, or individuals boarding with families, were classified as one person families and heads of households. Table 5 also considers boarders, such as unrelated persons living with and dependent on a family or possibly on welfare, as single person families.

## Appendix 3 (cont'd)

## FAMILIES BY SIZE AND BY ETHNIC ORIGIN IN MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

| CENTRAL MACKENZIE REGION       |                    |    |    |    |    |    |    |    |   |    |    |    |     |       |
|--------------------------------|--------------------|----|----|----|----|----|----|----|---|----|----|----|-----|-------|
| Settlement                     | PERSONS PER FAMILY |    |    |    |    |    |    |    |   |    |    |    |     |       |
|                                | 1                  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9 | 10 | 11 | 12 | 13+ | TOTAL |
| Colville Lake                  |                    |    |    |    |    |    |    |    |   |    |    |    |     |       |
| Native                         | 3                  | 4  | 5  | 3  | 1  | -  | -  | 1  | - | -  | -  | -  | -   | 17    |
| Non-Native                     | -                  | -  | -  | -  | -  | -  | -  | -  | - | -  | -  | -  | -   | --    |
| Total                          | 3                  | 4  | 5  | 3  | 1  | -  | -  | 1  | - | -  | -  | -  | -   | 17    |
| Fort Franklin                  |                    |    |    |    |    |    |    |    |   |    |    |    |     |       |
| Native                         | 4                  | 4  | 6  | 4  | 4  | 6  | 8  | 7  | 4 | 5  | 2  | 1  | -   | 55    |
| Non-Native                     | 9                  | 1  | -  | 2  | 2  | 2  | 1  | -  | - | -  | -  | -  | -   | 17    |
| Total                          | 13                 | 5  | 6  | 6  | 6  | 8  | 9  | 7  | 4 | 5  | 2  | 1  | -   | 72    |
| Ft. Good Hope                  |                    |    |    |    |    |    |    |    |   |    |    |    |     |       |
| Native                         | 27                 | 15 | 8  | 5  | 3  | 4  | 1  | 7  | 2 | 2  | 1  | -  | -   | 75    |
| Non-Native                     | 5                  | 2  | -  | 2  | 1  | -  | -  | -  | - | -  | -  | -  | -   | 10    |
| Total                          | 32                 | 17 | 8  | 7  | 4  | 4  | 1  | 7  | 2 | 2  | 1  | -  | -   | 85    |
| Ft. Norman                     |                    |    |    |    |    |    |    |    |   |    |    |    |     |       |
| Native                         | 11                 | 3  | 7  | 6  | 4  | 5  | 4  | 2  | 1 | 1  | 2  | -  | -   | 46    |
| Non-Native                     | 3                  | 1  | 2  | 2  | 2  | -  | -  | -  | 1 | -  | -  | -  | -   | 11    |
| Total                          | 14                 | 4  | 9  | 8  | 6  | 5  | 4  | 2  | 2 | 1  | 2  | -  | -   | 57    |
| Norman Wells                   |                    |    |    |    |    |    |    |    |   |    |    |    |     |       |
| Native                         | -                  | -  | -  | 1  | -  | -  | -  | -  | - | -  | -  | -  | -   | 1     |
| Non-Native                     | 10                 | 8  | 7  | 4  | 4  | 1  | -  | 1  | - | -  | -  | -  | -   | 35    |
| Total                          | 10                 | 8  | 7  | 5  | 4  | 1  | -  | 1  | - | -  | -  | -  | -   | 36    |
| Total Central Mackenzie Region |                    |    |    |    |    |    |    |    |   |    |    |    |     |       |
| Native                         | 45                 | 26 | 26 | 19 | 12 | 15 | 13 | 17 | 7 | 8  | 5  | 1  | -   | 194   |
| Non-Native                     | 27                 | 12 | 9  | 10 | 9  | 3  | 1  | 1  | 1 | -  | -  | -  | -   | 73    |
| Total                          | 72                 | 38 | 35 | 29 | 21 | 18 | 14 | 18 | 8 | 8  | 5  | 1  | -   | 267   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 5.

Note: Boarders who were financially independent, such as teachers or nurses in residences, employees living in bunkhouses, or individuals boarding with families, were classified as one person families and heads of households. Table 5 also considers boarders, such as unrelated persons living with and dependent on a family or possibly on welfare, as single person families.

## Appendix 3 (cont'd)

## FAMILIES BY SIZE AND BY ETHNIC ORIGIN IN MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

| Settlement       | PERSONS PER FAMILY     |    |    |    |    |   |   |   |   |    |    |    |           |
|------------------|------------------------|----|----|----|----|---|---|---|---|----|----|----|-----------|
|                  | UPPER MACKENZIE REGION |    |    |    |    |   |   |   |   |    |    |    |           |
|                  | 1                      | 2  | 3  | 4  | 5  | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13+ TOTAL |
| Fort Liard       |                        |    |    |    |    |   |   |   |   |    |    |    |           |
| Native           | 26                     | 7  | 5  | 6  | 7  | 5 | 2 | 4 | 2 | 2  | -  | -  | 66        |
| Non-Native       | -                      | 2  | -  | 1  | -  | 1 | - | - | - | 1  | -  | -  | 5         |
| Total            | 26                     | 9  | 5  | 7  | 7  | 6 | 2 | 4 | 2 | 3  | -  | -  | 71        |
| Ft. Providence   |                        |    |    |    |    |   |   |   |   |    |    |    |           |
| Native           | 26                     | 11 | 3  | 9  | 10 | 4 | 5 | 4 | 4 | 2  | -  | -  | 78        |
| Non-Native       | -                      | -  | -  | 1  | -  | - | - | - | - | -  | -  | -  | 1         |
| Total            | 26                     | 11 | 3  | 10 | 10 | 4 | 5 | 4 | 4 | 2  | -  | -  | 79        |
| Fort Simpson     |                        |    |    |    |    |   |   |   |   |    |    |    |           |
| Native           | 51                     | 11 | 13 | 9  | 8  | 6 | 5 | 3 | 3 | 2  | 1  | 1  | 115       |
| Non-Native       | 10                     | 5  | 6  | 6  | 4  | 3 | 2 | 1 | - | -  | -  | -  | 37        |
| Total            | 61                     | 16 | 19 | 15 | 12 | 9 | 7 | 4 | 3 | 2  | 1  | 1  | 152       |
| Fort Wrigley     |                        |    |    |    |    |   |   |   |   |    |    |    |           |
| Native           | 27                     | 5  | 4  | 1  | 1  | 2 | - | 2 | - | 1  | -  | 2  | 46        |
| Non-Native       | 1                      | 1  | -  | 1  | -  | 1 | - | 1 | - | -  | -  | -  | 5         |
| Total            | 28                     | 6  | 4  | 2  | 1  | 3 | - | 3 | - | 1  | -  | 2  | 51        |
| Jean Marie River |                        |    |    |    |    |   |   |   |   |    |    |    |           |
| Native           | 3                      | 1  | 1  | -  | -  | 2 | 1 | 1 | - | -  | -  | -  | 10        |
| Non-Native       | -                      | -  | -  | -  | -  | - | - | - | - | -  | -  | -  | -         |
| Total            | 3                      | 1  | 1  | -  | -  | 2 | 1 | 1 | - | -  | -  | -  | 10        |
| Nahanni Butte    |                        |    |    |    |    |   |   |   |   |    |    |    |           |
| Native           | 2                      | 2  | -  | 2  | 2  | - | - | 1 | - | -  | -  | 1  | 10        |
| Non-Native       | -                      | -  | -  | -  | -  | - | - | - | - | -  | -  | -  | -         |
| Total            | 2                      | 2  | -  | 2  | 2  | - | - | 1 | - | -  | -  | 1  | 10        |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1969, Table 5.

Note: Boarders who were financially independent, such as teachers or nurses in residences, employees living in bunkhouses, or individuals boarding with families, were classified as one person families and heads of households. Table 5 also considers boarders, such as unrelated persons living with and dependent on a family or possibly on welfare, as single person families.



## Appendix 3 (cont,d)

## FAMILIES BY SIZE AND BY ETHNIC ORIGIN IN MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

| Settlement                   | UPPER MACKENZIE REGION (cont'd) |     |     |     |     |     |    |    |    |    |    |    |           |
|------------------------------|---------------------------------|-----|-----|-----|-----|-----|----|----|----|----|----|----|-----------|
|                              | PERSONS PER FAMILY              |     |     |     |     |     |    |    |    |    |    |    |           |
|                              | 1                               | 2   | 3   | 4   | 5   | 6   | 7  | 8  | 9  | 10 | 11 | 12 | 13+ TOTAL |
| Trout Lake                   |                                 |     |     |     |     |     |    |    |    |    |    |    |           |
| Native                       | 3                               | 1   | -   | 1   | 3   | 1   | -  | -  | -  | 1  | -  | -  | 10        |
| Non-Native                   | -                               | -   | -   | -   | -   | -   | -  | -  | -  | -  | -  | -  | --        |
| Total                        | 3                               | 1   | -   | 1   | 3   | 1   | -  | -  | -  | 1  | -  | -  | 10        |
| Hay River                    |                                 |     |     |     |     |     |    |    |    |    |    |    |           |
| Native                       | 26                              | 16  | 9   | 6   | 10  | 6   | 2  | 5  | 5  | 3  | 2  | -  | 91        |
| Non-Native                   | 95                              | 51  | 45  | 61  | 39  | 23  | 8  | 6  | 2  | -  | -  | 1  | 331       |
| Total                        | 121                             | 67  | 54  | 67  | 49  | 29  | 10 | 11 | 7  | 3  | 2  | 1  | 422       |
| Total Upper Mackenzie Region |                                 |     |     |     |     |     |    |    |    |    |    |    |           |
| Native                       | 164                             | 54  | 35  | 34  | 41  | 26  | 15 | 20 | 14 | 11 | 3  | 4  | 426       |
| Non-Native                   | 106                             | 59  | 51  | 70  | 43  | 28  | 10 | 8  | 2  | 1  | -  | 1  | 379       |
| Total                        | 270                             | 113 | 86  | 104 | 84  | 54  | 25 | 28 | 16 | 12 | 3  | 5  | 805       |
| Total Impact Corridor        |                                 |     |     |     |     |     |    |    |    |    |    |    |           |
| Native                       | 372                             | 129 | 109 | 99  | 88  | 78  | 67 | 73 | 45 | 39 | 21 | 9  | 1,149     |
| Non-Native                   | 289                             | 122 | 94  | 114 | 81  | 43  | 22 | 14 | 8  | 2  | 0  | 3  | 793       |
| Total                        | 661                             | 251 | 203 | 213 | 169 | 121 | 89 | 87 | 53 | 41 | 21 | 12 | 1,942     |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 5.

## Note:

Boarders who were financially independent, such as teachers or nurses in residences, employees living in bunkhouses, or individuals boarding with families, were classified as one person families and heads of households. Table 5 also considers boarders, such as unrelated persons living with and dependent on a family or possibly on welfare, as single person families.

## Appendix 4

## TOTAL INCOME BY SOURCE OF INCOME IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS

| Income Source                   | LOWER MACKENZIE REGION |             |             |           |            |           |           |            |           |  |
|---------------------------------|------------------------|-------------|-------------|-----------|------------|-----------|-----------|------------|-----------|--|
|                                 | Inuvik                 |             | Tuktoyaktuk |           | Aklavik    |           |           |            |           |  |
|                                 | Native                 | Non-Native  | Total       | Native    | Non-Native | Total     | Native    | Non-Native | Total     |  |
| Wages/Salaries                  | \$636,662              | \$2,310,933 | \$2,947,595 | \$296,552 | N/Av       | \$296,552 | \$252,390 | \$183,614  | \$436,004 |  |
| Self-Employment                 | 7,044                  | 108,448     | 115,492     | 1,121     | N/Av       | 1,121     | 793       | 10,700     | 11,493    |  |
| Hunting/Trapping <sup>1/</sup>  | 86,373                 | -           | 86,373      | 9,463     | -          | 9,463     | 65,855    | -          | 65,855    |  |
| TOTAL EARNED INCOME             | \$730,079              | \$2,419,381 | \$3,149,460 | \$307,136 | N/Av       | \$307,136 | \$319,038 | \$194,314  | \$513,352 |  |
| Social Legislation              | 43,044                 | 37,882      | 80,926      | 28,708    | N/Av       | 28,708    | 45,053    | 10,640     | 53,693    |  |
| Social Assistance <sup>2/</sup> | 29,011                 | -           | 29,011      | 6,391     | -          | 6,391     | 29,222    | -          | 29,222    |  |
| Other Welfare <sup>3/</sup>     | 31,512                 | -           | 31,512      | 13,750    | -          | 13,750    | 24,687    | -          | 24,687    |  |
| TOTAL UNEARNED INCOME           | \$103,567              | \$37,882    | \$141,449   | \$48,849  | N/Av       | \$48,849  | \$98,962  | \$10,640   | \$109,602 |  |
| TOTAL INCOME                    | \$833,646              | \$2,457,263 | \$3,290,909 | \$355,985 | N/Av       | \$355,985 | \$418,000 | \$204,954  | \$622,954 |  |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 59-67, except where otherwise indicated.

1/ N.W.T. Fur Traders' Record Books for Game Year July 1, 1969 - June 30, 1970. Figures for non-natives included in total as no means of clearly breaking them out.

2/ Records of Department of Social Development, Government of the N.W.T., Yellowknife, N.W.T. for October 1, 1969.

3/ Dept. Social Development records; Other Welfare includes such things as training allowances, maintenance of dependent children - i.e., all welfare payments except social assistance payments made for economic reasons (relief). Amounts ascribed to natives only, as no means exist of determining involvement of non-natives.



Appendix 4 (cont'd)

TOTAL INCOME BY SOURCE OF INCOME IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS

CENTRAL MACKENZIE REGION

| Income Source                   | Norman Wells |            |           | Fort Norman |            |           | Colville Lake |            |          |
|---------------------------------|--------------|------------|-----------|-------------|------------|-----------|---------------|------------|----------|
|                                 | Native       | Non-Native | Total     | Native      | Non-Native | Total     | Native        | Non-Native | Total    |
| Wages/Salaries                  | N/Av         | \$290,258  | \$290,258 | \$117,465   | \$93,875   | \$211,340 | \$14,790      | -          | \$14,790 |
| Self-Employment                 | N/Av         | -          | -         | 1,700       | -          | 1,700     | 25            | -          | 25       |
| Hunting/Trapping <sup>1/</sup>  | N/Av         | -          | N/Av      | 10,862      | -          | 10,862    | 5,205         | -          | 5,205    |
| TOTAL EARNED INCOME             | N/Av         | \$290,258  | \$290,258 | \$130,027   | \$93,875   | \$223,902 | \$20,020      | -          | \$20,020 |
| Social Legislation              | \$ 144       | 2,976      | 3,120     | 22,596      | 2,592      | 25,188    | 7,836         | -          | 7,836    |
| Social Assistance <sup>2/</sup> | 105          | -          | 105       | 4,666       | -          | 4,666     | 1,603         | -          | 1,603    |
| Other Welfare <sup>3/</sup>     | -            | -          | -         | 6,842       | -          | 6,842     | -             | -          | -        |
| TOTAL UNEARNED INCOME           | \$ 249       | \$ 2,976   | \$ 3,225  | \$ 34,104   | \$ 2,592   | \$ 36,696 | \$ 9,439      | -          | \$ 9,439 |
| TOTAL INCOME                    | \$ 249       | \$293,234  | \$293,483 | \$164,131   | \$96,467   | \$260,598 | \$29,459      | -          | \$29,459 |



Appendix 4 (cont'd)

TOTAL INCOME BY SOURCE OF INCOME IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS

CENTRAL MACKENZIE REGION

| Income Source                   | <u>Fort Franklin</u> |                   | <u>Fort Good Hope</u> |                   | <u>Total Region</u> |                   |
|---------------------------------|----------------------|-------------------|-----------------------|-------------------|---------------------|-------------------|
|                                 | <u>Native</u>        | <u>Non-Native</u> | <u>Native</u>         | <u>Non-Native</u> | <u>Native</u>       | <u>Non-Native</u> |
| Wages/Salaries                  | \$ 95,100            | \$111,500         | \$ 81,492             | \$56,340          | \$308,847           | \$551,973         |
| Self-Employment                 | 900                  | 5,900             | -                     | -                 | 2,625               | 5,000             |
| Hunting/Trapping <sup>1/</sup>  | 20,908               | -                 | 8,950                 | -                 | 45,925              | -                 |
| <b>TOTAL EARNED INCOME</b>      | <b>\$116,908</b>     | <b>\$116,500</b>  | <b>\$ 90,442</b>      | <b>\$56,340</b>   | <b>\$357,397</b>    | <b>\$556,973</b>  |
|                                 |                      |                   |                       |                   |                     |                   |
| Social Legislation              | 29,922               | 1,536             | 31,592                | 540               | 92,090              | 7,608             |
| Social Assistance <sup>2/</sup> | 1,479                | -                 | 5,265                 | -                 | 13,118              | -                 |
| Other Welfare <sup>3/</sup>     | 11,054               | -                 | 18,832                | -                 | 36,728              | -                 |
| <b>TOTAL UNEARNED INCOME</b>    | <b>\$ 42,455</b>     | <b>\$ 1,536</b>   | <b>\$ 55,689</b>      | <b>\$ 540</b>     | <b>\$141,936</b>    | <b>\$ 7,608</b>   |
| <b>TOTAL INCOME</b>             | <b>\$159,363</b>     | <b>\$118,036</b>  | <b>\$146,131</b>      | <b>\$46,844</b>   | <b>\$499,333</b>    | <b>\$564,581</b>  |
|                                 |                      |                   |                       |                   |                     |                   |
|                                 |                      |                   |                       |                   |                     |                   |

## Appendix 4 (cont'd)

## TOTAL INCOME BY SOURCE OF INCOME IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS

## UPPER MACKENZIE REGION

| Income Source                   | Fort Simpson |            | Fort Liard |                          | Fort Providence          |           |
|---------------------------------|--------------|------------|------------|--------------------------|--------------------------|-----------|
|                                 | Native       | Non-Native | Total      | Native                   | Non-Native               | Total     |
| Wages/Salaries                  | \$156,887    | \$257,841  | \$414,728  | \$56,106                 | \$38,680                 | \$94,786  |
| Self-Employment                 | 4,800        | 2,000      | 6,800      | 1,020                    | -                        | 1,020     |
| Hunting-Trapping <sup>1/</sup>  | 24,115       | -          | 24,115     | 12,784                   | -                        | 12,784    |
| TOTAL EARNED INCOME             | \$185,802    | \$259,841  | \$445,643  | \$69,910                 | \$38,680                 | \$108,590 |
| Social Legislation              | 24,848       | 5,136      | 29,984     | 23,928                   | 1,809                    | 25,737    |
| Social Assistance <sup>2/</sup> | 10,652       | -          | 10,652     | Included in Fort Simpson | Included in Fort Simpson | 43,202    |
| Other Welfare <sup>3/</sup>     | 30,879       | -          | 30,879     | Included in Fort Simpson | Included in Fort Simpson | 13,442    |
| TOTAL UNEARNED INCOME           | \$ 66,379    | \$ 5,136   | \$ 71,515  | \$23,928                 | \$ 1,809                 | \$ 25,737 |
| TOTAL INCOME                    | \$252,181    | \$264,977  | \$517,158  | \$93,838                 | \$40,489                 | \$134,327 |
|                                 |              |            |            | \$204,305                | \$216                    | \$204,521 |

<sup>4/</sup> Payments for Fort Simpson include those for Fort Liard, Fort Wrigley, Jean Marie River, Nahanni Butte and Trout Lake.

## Appendix 4 (cont'd)

## TOTAL INCOME BY SOURCE OF INCOME IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS

## UPPER MACKENZIE REGION

| <u>Income Source</u>        | <u>Fort Wrigley</u>      |                   |              | <u>Jean Marie River</u>  |                   |              | <u>Nahanni Butte</u>     |                   |              |
|-----------------------------|--------------------------|-------------------|--------------|--------------------------|-------------------|--------------|--------------------------|-------------------|--------------|
|                             | <u>Native</u>            | <u>Non-Native</u> | <u>Total</u> | <u>Native</u>            | <u>Non-Native</u> | <u>Total</u> | <u>Native</u>            | <u>Non-Native</u> | <u>Total</u> |
| Wages/Salaries              | \$33,829                 | \$46,025          | \$ 79,854    | \$ 4,374                 | -                 | \$ 4,374     | \$10,900                 | -                 | \$10,900     |
| Self Employment             | -                        | 500               | 500          | -                        | -                 | -            | -                        | -                 | -            |
| Hunting/Trapping <u>1/</u>  | 8,648                    |                   | 8,648        | 2,927                    | -                 | 2,927        | 2,929                    |                   | 2,929        |
| TOTAL EARNED INCOME         | \$42,477                 | \$46,525          | \$ 89,002    | \$ 7,301                 | -                 | \$ 7,301     | \$13,829                 | -                 | \$13,829     |
| Social Legislation          | 10,500                   | 828               | 11,328       | 4,368                    | -                 | 4,368        | 2,178                    | N/Av              | 2,178        |
| Social Assistance <u>2/</u> | Included in Fort Simpson |                   |              | Included in Fort Simpson |                   |              | Included in Fort Simpson |                   |              |
| Other Welfare <u>3/</u>     | Included in Fort Simpson |                   |              | Included in Fort Simpson |                   |              | Included in Fort Simpson |                   |              |
| TOTAL UNEARNED INCOME       | \$10,500                 | \$ 828            | \$ 11,328    | \$ 4,368                 | -                 | \$ 4,368     | \$ 2,178                 | -                 | \$ 2,178     |
| TOTAL INCOME                | \$52,977                 | \$47,353          | \$100,330    | \$11,669                 | -                 | \$11,669     | \$16,007                 | -                 | \$16,007     |

Appendix 4 (cont'd)

TOTAL INCOME BY SOURCE OF INCOME IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS

UPPER MACKENZIE REGION

| <u>Income Source</u>            | <u>Trout Lake</u>        |                   | <u>Hay River</u> |                   | <u>Total Region</u> |              |
|---------------------------------|--------------------------|-------------------|------------------|-------------------|---------------------|--------------|
|                                 | <u>Native</u>            | <u>Non-Native</u> | <u>Native</u>    | <u>Non-Native</u> | <u>Native</u>       | <u>Total</u> |
| Wages/Salaries                  | \$ -                     | -                 | \$259,993        | \$2,087,108       | \$2,347,101         | \$3,045,578  |
| Self-Employment                 | -                        | -                 | 2,168            | 223,775           | 225,943             | 234,263      |
| Hunting/Trapping <sup>1/</sup>  | \$ 5,932                 | \$ 5,932          | 8,239            | -                 | 8,239               | 84,896       |
| TOTAL EARNED INCOME             | \$ 5,932                 | \$ 5,932          | \$270,400        | \$2,310,883       | \$2,581,283         | \$3,364,737  |
| Social Legislation              | 6,240                    | 6,240             | 36,308           | 46,918            | 83,226              | 197,781      |
| Social Assistance <sup>2/</sup> | Included in Fort Simpson |                   | 47,704           | -                 | 47,704              | 101,558      |
| Other Welfare <sup>3/</sup>     | Included in Fort Simpson |                   | 50,195           | -                 | 50,195              | 94,516       |
| TOTAL UNEARNED INCOME           | \$ 6,240                 | \$ 6,240          | \$134,207        | \$ 46,918         | \$ 181,125          | \$ 393,855   |
| TOTAL INCOME                    | \$12,172                 | \$12,172          | \$404,607        | \$2,357,801       | \$2,762,408         | \$3,758,592  |



## APPENDIX 5

NATIVE AND NON-NATIVE POPULATION 14 YEARS OF AGE AND  
OVER BY SOURCE OF INCOME AND INCOME CATEGORY, MACKENZIE IMPACT CORRIDOR

## TOTAL LOWER MACKENZIE REGION

|            |   | \$1-399 | \$400-<br>699 | \$700-<br>999 | \$1,000-<br>1,999 | \$2,000-<br>2,999 | \$3,000<br>3,999 | \$4,000<br>4,999 | \$5,000<br>5,999 | \$6,000-<br>9,999 | \$10,000<br>& over | Not<br>Spec. | None  | Total |
|------------|---|---------|---------------|---------------|-------------------|-------------------|------------------|------------------|------------------|-------------------|--------------------|--------------|-------|-------|
| Native     | M | 21      | 22            | 29            | 83                | 45                | 27               | 30               | 26               | 70                | 7                  | 39           | 238   | 637   |
|            | F | 32      | 16            | 12            | 29                | 35                | 19               | 8                | 3                | 8                 | -                  | 17           | 455   | 634   |
|            | T | 53      | 38            | 41            | 112               | 80                | 46               | 38               | 29               | 78                | 7                  | 56           | 693   | 1,271 |
| Non-Native | M | 6       | 3             | 4             | 6                 | 6                 | 6                | 5                | 5                | 85                | 99                 | 21           | 56    | 302   |
|            | F | 7       | 9             | 1             | 9                 | 8                 | 13               | 18               | 13               | 70                | 5                  | 11           | 111   | 275   |
|            | T | 13      | 12            | 5             | 15                | 14                | 19               | 23               | 18               | 155               | 104                | 32           | 167   | 577   |
| Total      | M | 27      | 25            | 33            | 89                | 51                | 33               | 35               | 31               | 155               | 106                | 60           | 294   | 939   |
|            | F | 39      | 25            | 13            | 39                | 43                | 32               | 26               | 16               | 78                | 5                  | 28           | 566   | 909   |
|            | T | 66      | 50            | 46            | 127               | 94                | 65               | 61               | 47               | 233               | 111                | 88           | 860   | 1,848 |
| Native     | M | 28      | 12            | 8             | 12                | 3                 | 2                | 1                | -                | 2                 | -                  | 34           | 535   | 637   |
|            | F | 5       | -             | -             | -                 | -                 | -                | -                | -                | -                 | -                  | 1            | 628   | 634   |
|            | T | 33      | 12            | 8             | 12                | 3                 | 2                | 1                | -                | 2                 | -                  | 35           | 1,163 | 1,271 |
| Non-Native | M | 2       | 1             | -             | -                 | -                 | -                | -                | -                | 1                 | -                  | -            | 298   | 302   |
|            | F | -       | -             | -             | -                 | -                 | -                | -                | -                | -                 | -                  | 1            | 274   | 275   |
|            | T | 2       | 1             | -             | -                 | -                 | -                | -                | -                | 1                 | -                  | 1            | 572   | 577   |
| Total      | M | 30      | 13            | 8             | 12                | 3                 | 2                | 1                | -                | 3                 | -                  | 34           | 833   | 939   |
|            | F | 5       | -             | -             | -                 | -                 | -                | -                | -                | -                 | -                  | 2            | 902   | 909   |
|            | T | 35      | 13            | 8             | 12                | 3                 | 2                | 1                | -                | 3                 | -                  | 36           | 1,735 | 1,848 |
| Native     | M | 4       | 1             | -             | -                 | 1                 | 1                | -                | -                | -                 | -                  | 4            | 626   | 637   |
|            | F | 4       | 1             | 1             | 1                 | -                 | -                | -                | -                | -                 | -                  | 3            | 624   | 634   |
|            | T | 8       | 2             | 1             | 1                 | 1                 | 1                | -                | -                | -                 | -                  | 7            | 1,250 | 1,271 |
| Non-Native | M | -       | 1             | 1             | 1                 | -                 | -                | 1                | 1                | 1                 | 9                  | 6            | 281   | 302   |
|            | F | -       | -             | -             | -                 | -                 | -                | -                | -                | -                 | 1                  | 1            | 273   | 275   |
|            | T | -       | 1             | 1             | 1                 | -                 | -                | 1                | 1                | 1                 | 10                 | 7            | 554   | 577   |
| Total      | M | 4       | 2             | 1             | 1                 | 1                 | 1                | 1                | 1                | 1                 | 9                  | 10           | 907   | 939   |
|            | F | 4       | 1             | 1             | 1                 | -                 | -                | -                | -                | -                 | 1                  | 4            | 897   | 909   |
|            | T | 8       | 3             | 2             | 2                 | 1                 | 1                | 1                | 1                | 1                 | 10                 | 14           | 1,804 | 1,848 |

## APPENDIX 5 (cont'd)

NATIVE AND NON-NATIVE POPULATION 14 YEARS OF AGE AND  
OVER BY SOURCE OF INCOME AND INCOME CATEGORY, MACKENZIE IMPACT CORRIDOR

## TOTAL LOWER MACKENZIE REGION

|                       |   | \$1-399 | \$400-<br>699 | \$700-<br>999 | \$1,000-<br>1,999 | \$2,000-<br>2,999 | \$3,000<br>3,999 | \$4,000-<br>4,999 | \$5,000-<br>5,999 | \$6,000-<br>9,999 | \$10,000<br>& over | Not<br>Spec. | None  | Total |
|-----------------------|---|---------|---------------|---------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------|-------|-------|
| Total Earned Income   |   |         |               |               |                   |                   |                  |                   |                   |                   |                    |              |       |       |
| Native                | M | 18      | 24            | 27            | 99                | 50                | 29               | 32                | 26                | 73                | 6                  | 58           | 195   | 637   |
|                       | F | 40      | 15            | 13            | 31                | 35                | 19               | 8                 | 3                 | 8                 | -                  | 20           | 442   | 634   |
|                       | T | 58      | 39            | 40            | 130               | 85                | 48               | 40                | 29                | 81                | 6                  | 78           | 637   | 1,271 |
| Non-Native            | M | 7       | 3             | 4             | 7                 | 6                 | 6                | 6                 | 6                 | 87                | 108                | 24           | 38    | 302   |
|                       | F | 7       | 9             | 1             | 9                 | 8                 | 13               | 18                | 13                | 70                | 6                  | 12           | 109   | 275   |
|                       | T | 14      | 12            | 5             | 16                | 14                | 19               | 24                | 19                | 157               | 114                | 36           | 147   | 577   |
| Total                 | M | 25      | 27            | 31            | 106               | 56                | 35               | 38                | 32                | 160               | 114                | 82           | 233   | 939   |
|                       | F | 47      | 24            | 14            | 40                | 43                | 32               | 26                | 16                | 78                | 6                  | 32           | 551   | 909   |
|                       | T | 72      | 51            | 45            | 146               | 99                | 67               | 64                | 48                | 238               | 120                | 114          | 784   | 1,848 |
| Native                | M | 119     | 82            | 11            | 43                | 1                 | -                | -                 | -                 | -                 | -                  | 1            | 380   | 637   |
|                       | F | 66      | 15            | 11            | 45                | 1                 | -                | -                 | -                 | -                 | -                  | -            | 496   | 634   |
|                       | T | 185     | 97            | 22            | 88                | 2                 | -                | -                 | -                 | -                 | -                  | 1            | 876   | 1,271 |
| Non-Native            | M | 92      | 14            | 3             | 8                 | -                 | -                | -                 | -                 | 1                 | -                  | -            | 184   | 302   |
|                       | F | 13      | -             | 2             | 7                 | -                 | -                | -                 | -                 | -                 | -                  | -            | 253   | 275   |
|                       | T | 105     | 14            | 5             | 15                | -                 | -                | -                 | -                 | 1                 | -                  | -            | 437   | 577   |
| Total                 | M | 211     | 96            | 14            | 51                | 1                 | -                | -                 | -                 | 1                 | -                  | 1            | 564   | 939   |
|                       | F | 79      | 15            | 13            | 52                | 1                 | -                | -                 | -                 | -                 | -                  | -            | 749   | 909   |
|                       | T | 290     | 111           | 27            | 103               | 2                 | -                | -                 | -                 | 1                 | -                  | 1            | 1,313 | 1,848 |
| Native                | M | 29      | 26            | 29            | 131               | 54                | 38               | 32                | 26                | 72                | 9                  | 38           | 153   | 637   |
|                       | F | 73      | 25            | 21            | 76                | 38                | 20               | 10                | 3                 | 8                 | -                  | 15           | 350   | 634   |
|                       | T | 102     | 51            | 50            | 207               | 87                | 58               | 42                | 29                | 80                | 9                  | 53           | 503   | 1,271 |
| Non-Native            | M | 16      | 5             | 5             | 8                 | 6                 | 7                | 6                 | 6                 | 88                | 109                | 15           | 31    | 302   |
|                       | F | 9       | 7             | 4             | 15                | 8                 | 13               | 18                | 13                | 69                | 7                  | 11           | 101   | 275   |
|                       | T | 25      | 12            | 9             | 23                | 14                | 20               | 24                | 19                | 157               | 116                | 26           | 132   | 577   |
| Total                 | M | 45      | 31            | 34            | 139               | 60                | 45               | 38                | 32                | 160               | 118                | 53           | 184   | 939   |
|                       | F | 82      | 32            | 25            | 91                | 41                | 33               | 28                | 16                | 77                | 7                  | 26           | 451   | 909   |
|                       | T | 127     | 63            | 59            | 230               | 101               | 78               | 66                | 48                | 237               | 125                | 79           | 635   | 1,848 |
| Total Unearned Income |   |         |               |               |                   |                   |                  |                   |                   |                   |                    |              |       |       |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 25 to 30.



APPENDIX 5 (cont'd)

NATIVE AND NON-NATIVE POPULATION 14 YEARS OF AGE AND  
OVER BY SOURCE OF INCOME AND INCOME CATEGORY, MACKENZIE IMPACT CORRIDOR

|            |   | TOTAL CENTRAL MACKENZIE REGION |               |               |                   |                   |                  |                   |                  |                   |                    | Not<br>Spec. | None | Total |
|------------|---|--------------------------------|---------------|---------------|-------------------|-------------------|------------------|-------------------|------------------|-------------------|--------------------|--------------|------|-------|
|            |   | \$1-399                        | \$400-<br>699 | \$700-<br>999 | \$1,000-<br>1,999 | \$2,000-<br>2,999 | \$3,000<br>3,999 | \$4,000-<br>4,999 | \$5,000<br>5,999 | \$6,000-<br>9,999 | \$10,000<br>& over |              |      |       |
| Native     | M | 35                             | 30            | 12            | 30                | 19                | 16               | 4                 | 2                | 11                | 2                  | 5            | 81   | 247   |
|            | F | 21                             | 5             | 2             | 8                 | 4                 | 4                | 2                 | 1                | -                 | -                  | 3            | 176  | 226   |
|            | T | 56                             | 35            | 14            | 38                | 23                | 20               | 6                 | 3                | 11                | 2                  | 8            | 257  | 473   |
| Non-Native | M | -                              | -             | 2             | -                 | 1                 | -                | 2                 | 2                | 21                | 26                 | 6            | 6    | 66    |
|            | F | 3                              | 1             | -             | 2                 | 3                 | 4                | 2                 | -                | 7                 | 1                  | 3            | 30   | 56    |
|            | T | 3                              | 1             | 2             | 2                 | 4                 | 4                | 4                 | 2                | 28                | 27                 | 9            | 36   | 122   |
| Total      | M | 35                             | 30            | 14            | 30                | 20                | 16               | 6                 | 4                | 32                | 28                 | 11           | 87   | 313   |
|            | F | 24                             | 6             | 2             | 10                | 7                 | 8                | 4                 | 1                | 7                 | 1                  | 6            | 206  | 282   |
|            | T | 59                             | 36            | 16            | 40                | 27                | 24               | 10                | 5                | 39                | 29                 | 17           | 293  | 595   |
| Native     | M | 59                             | 31            | 9             | 30                | -                 | -                | -                 | -                | -                 | -                  | -            | 118  | 247   |
|            | F | 11                             | 12            | 5             | 24                | -                 | -                | -                 | -                | -                 | -                  | 1            | 173  | 226   |
|            | T | 70                             | 43            | 14            | 54                | -                 | -                | -                 | -                | -                 | -                  | 1            | 291  | 473   |
| Non-Native | M | 31                             | 2             | -             | -                 | 1                 | -                | -                 | -                | -                 | -                  | -            | 32   | 66    |
|            | F | -                              | -             | -             | 2                 | -                 | -                | -                 | -                | -                 | -                  | -            | 54   | 56    |
|            | T | 31                             | 2             | -             | 2                 | 1                 | -                | -                 | -                | -                 | -                  | -            | 86   | 122   |
| Total      | M | 90                             | 33            | 9             | 30                | 1                 | -                | -                 | -                | -                 | -                  | -            | 150  | 313   |
|            | F | 11                             | 12            | 5             | 26                | -                 | -                | -                 | -                | -                 | -                  | 1            | 227  | 282   |
|            | T | 101                            | 45            | 14            | 56                | 1                 | -                | -                 | -                | -                 | -                  | 1            | 377  | 595   |
| Native     | M | 24                             | 32            | 19            | 63                | 20                | 16               | 7                 | 2                | 11                | 2                  | 4            | 47   | 247   |
|            | F | 22                             | 14            | 9             | 33                | 4                 | 4                | 2                 | 1                | -                 | -                  | 3            | 134  | 226   |
|            | T | 46                             | 46            | 28            | 96                | 24                | 20               | 9                 | 3                | 11                | 2                  | 7            | 181  | 473   |
| Non-Native | M | 3                              | -             | 2             | -                 | -                 | -                | 3                 | 2                | 21                | 27                 | 2            | 6    | 66    |
|            | F | 3                              | 1             | -             | 4                 | 3                 | 4                | 2                 | -                | 7                 | 1                  | 3            | 28   | 56    |
|            | T | 6                              | 1             | 2             | 4                 | 3                 | 4                | 5                 | 2                | 28                | 28                 | 5            | 34   | 122   |
| Total      | M | 27                             | 32            | 21            | 63                | 20                | 16               | 10                | 4                | 32                | 29                 | 6            | 53   | 313   |
|            | F | 25                             | 15            | 9             | 37                | 7                 | 8                | 4                 | 1                | 7                 | 1                  | 6            | 162  | 282   |
|            | T | 52                             | 47            | 30            | 100               | 27                | 24               | 14                | 5                | 39                | 30                 | 12           | 215  | 595   |

Total Unearned Income

Total Income

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 25 to 30.



## APPENDIX 5 (cont'd)

## NATIVE AND NON-NATIVE POPULATION 14 YEARS OF AGE AND

## OVER BY SOURCE OF INCOME AND INCOME CATEGORY, MACKENZIE IMPACT CORRIDOR

## TOTAL UPPER MACKENZIE REGION

|                   |            | \$1-399 | \$400-699 | \$700-999 | \$1,000-1,999 | \$2,000-2,999 | \$3,000-3,999 | \$4,000-4,999 | \$5,000-5,999 | \$6,000-9,999 | \$10,000 & over | Not Spec. | None  | Total |
|-------------------|------------|---------|-----------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------|-------|-------|
| Hunting, Trapping | Native     | M       | 37        | 12        | 37            | 16            | 13            | 8             | 15            | 31            | 1               | 37        | 238   | 482   |
|                   | F          | 11      | 5         | 4         | 12            | 6             | 7             | 6             | 2             | 1             | -               | 17        | 317   | 388   |
|                   | T          | 48      | 42        | 16        | 49            | 22            | 20            | 14            | 17            | 32            | 1               | 54        | 555   | 870   |
| Wages & Salaries  | Non-Native | M       | 2         | 4         | 14            | 5             | 5             | 10            | 6             | 118           | 81              | 41        | 76    | 369   |
|                   | F          | 16      | 10        | 7         | 33            | 19            | 21            | 23            | 12            | 24            | 3               | 31        | 157   | 356   |
|                   | T          | 18      | 17        | 11        | 47            | 24            | 26            | 33            | 18            | 142           | 84              | 72        | 233   | 725   |
| Fishing           | Total      | M       | 39        | 16        | 51            | 21            | 18            | 18            | 21            | 149           | 82              | 78        | 314   | 851   |
|                   | F          | 27      | 15        | 11        | 45            | 25            | 28            | 29            | 14            | 25            | 3               | 48        | 474   | 744   |
|                   | T          | 66      | 59        | 27        | 96            | 46            | 46            | 47            | 35            | 174           | 85              | 126       | 788   | 1,595 |
| Self-Employment   | Native     | M       | 54        | 29        | 6             | 1             | 1             | 2             | -             | -             | -               | 34        | 342   | 482   |
|                   | F          | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 387   | 388   |
|                   | T          | 54      | 29        | 13        | 6             | 1             | 1             | 2             | -             | -             | -               | 35        | 729   | 870   |
| Hunting, Trapping | Non-Native | M       | -         | -         | -             | -             | -             | 1             | -             | -             | -               | 6         | 362   | 369   |
|                   | F          | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 356   | 356   |
|                   | T          | -       | -         | -         | -             | -             | -             | 1             | -             | -             | -               | 6         | 718   | 725   |
| Wages & Salaries  | Total      | M       | 54        | 29        | 6             | 1             | 1             | 3             | -             | -             | -               | 40        | 704   | 851   |
|                   | F          | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 743   | 744   |
|                   | T          | 54      | 29        | 13        | 6             | 1             | 1             | 3             | -             | -             | -               | 41        | 1,447 | 1,595 |
| Self-Employment   | Native     | M       | 2         | -         | -             | 1             | -             | -             | -             | -             | -               | 4         | 475   | 482   |
|                   | F          | 1       | 1         | 2         | -             | -             | 1             | -             | -             | -             | -               | -         | 383   | 388   |
|                   | T          | 3       | 1         | 2         | -             | 1             | 1             | -             | -             | -             | -               | 4         | 858   | 870   |
| Hunting, Trapping | Non-Native | M       | -         | -         | -             | 1             | -             | -             | 2             | 14            | 10              | 20        | 321   | 369   |
|                   | F          | 1       | -         | -         | -             | -             | -             | -             | -             | 1             | -               | 2         | 352   | 356   |
|                   | T          | 1       | 1         | -         | -             | 1             | -             | -             | 2             | 15            | 10              | 22        | 673   | 725   |
| Wages & Salaries  | Total      | M       | 2         | 1         | -             | 2             | -             | -             | 2             | 14            | 10              | 24        | 796   | 851   |
|                   | F          | 2       | 1         | 2         | -             | -             | 1             | -             | -             | 1             | -               | 2         | 735   | 744   |
|                   | T          | 4       | 2         | 2         | -             | 2             | 1             | -             | 2             | 15            | 10              | 26        | 1,531 | 1,595 |

APPENDIX 5 (cont'd)

NATIVE AND NON-NATIVE POPULATION 14 YEARS OF AGE AND  
OVER BY SOURCE OF INCOME AND INCOME CATEGORY, MACKENZIE IMPACT CORRIDOR

TOTAL UPPER MACKENZIE REGION

|            |   | \$1-399 | \$400-<br>699 | \$700-<br>999 | \$1,000-<br>1,999 | \$2,000-<br>2,999 | \$3,000-<br>3,999 | \$4,000-<br>4,999 | \$5,000-<br>5,999 | \$6,000-<br>9,999 | \$10,000<br>& over | Not<br>Spec. | None  | Total |
|------------|---|---------|---------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------|-------|-------|
| Native     | M | 65      | 50            | 31            | 40                | 20                | 14                | 9                 | 16                | 32                | 1                  | 52           | 152   | 482   |
|            | F | 12      | 6             | 6             | 12                | 6                 | 8                 | 6                 | 2                 | 1                 | -                  | 17           | 312   | 388   |
|            | T | 77      | 56            | 37            | 52                | 26                | 22                | 15                | 18                | 33                | 1                  | 69           | 464   | 870   |
| Non-Native | M | 2       | 6             | 4             | 14                | 6                 | 5                 | 10                | 7                 | 133               | 90                 | 61           | 31    | 369   |
|            | F | 16      | 10            | 7             | 33                | 19                | 21                | 23                | 12                | 25                | 3                  | 33           | 154   | 356   |
|            | T | 18      | 16            | 11            | 47                | 25                | 26                | 33                | 19                | 158               | 93                 | 94           | 185   | 725   |
| Total      | M | 67      | 56            | 35            | 54                | 26                | 19                | 19                | 23                | 165               | 91                 | 113          | 183   | 851   |
|            | F | 28      | 16            | 13            | 45                | 25                | 29                | 29                | 14                | 26                | 3                  | 50           | 466   | 744   |
|            | T | 95      | 72            | 48            | 99                | 51                | 48                | 48                | 37                | 191               | 94                 | 163          | 649   | 1,595 |
| Native     | M | 98      | 39            | 14            | 50                | 2                 | -                 | -                 | -                 | -                 | -                  | -            | 279   | 482   |
|            | F | 24      | 7             | 7             | 35                | 1                 | -                 | -                 | -                 | -                 | -                  | -            | 314   | 388   |
|            | T | 122     | 46            | 21            | 85                | 3                 | -                 | -                 | -                 | -                 | -                  | -            | 593   | 870   |
| Non-Native | M | 176     | 16            | 3             | 11                | 1                 | 1                 | -                 | -                 | -                 | -                  | 1            | 160   | 369   |
|            | F | 8       | 5             | 2             | 2                 | -                 | -                 | -                 | -                 | -                 | -                  | -            | 339   | 356   |
|            | T | 184     | 21            | 5             | 13                | 1                 | 1                 | -                 | -                 | -                 | -                  | 1            | 499   | 725   |
| Total      | M | 274     | 55            | 17            | 61                | 3                 | 1                 | -                 | -                 | -                 | -                  | 1            | 439   | 851   |
|            | F | 32      | 12            | 9             | 37                | 1                 | -                 | -                 | -                 | -                 | -                  | -            | 653   | 744   |
|            | T | 306     | 67            | 26            | 98                | 4                 | 1                 | -                 | -                 | -                 | -                  | 1            | 1,092 | 1,595 |
| Native     | M | 62      | 48            | 44            | 99                | 22                | 15                | 9                 | 17                | 33                | 1                  | 32           | 100   | 482   |
|            | F | 30      | 10            | 11            | 45                | 9                 | 9                 | 6                 | 2                 | 1                 | -                  | 12           | 253   | 388   |
|            | T | 92      | 58            | 55            | 144               | 31                | 24                | 15                | 19                | 34                | 1                  | 44           | 353   | 870   |
| Non-Native | M | 28      | 9             | 6             | 23                | 5                 | 7                 | 9                 | 8                 | 132               | 91                 | 27           | 24    | 369   |
|            | F | 20      | 14            | 8             | 33                | 20                | 21                | 23                | 12                | 25                | 3                  | 30           | 147   | 356   |
|            | T | 48      | 23            | 14            | 56                | 25                | 28                | 32                | 20                | 157               | 94                 | 57           | 171   | 725   |
| Total      | M | 90      | 57            | 50            | 122               | 27                | 22                | 18                | 25                | 165               | 92                 | 59           | 124   | 851   |
|            | F | 50      | 24            | 19            | 78                | 29                | 30                | 29                | 14                | 26                | 3                  | 42           | 400   | 744   |
|            | T | 140     | 81            | 69            | 200               | 56                | 52                | 47                | 39                | 191               | 95                 | 101          | 524   | 1,595 |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 25 to 30.

## APPENDIX 5 (cont'd)

NATIVE AND NON-NATIVE POPULATION 14 YEARS OF AGE AND  
OVER BY SOURCE OF INCOME AND INCOME CATEGORY, MACKENZIE IMPACT CORRIDOR

## TOTAL MACKENZIE IMPACT CORRIDOR

|            |   | \$1-399 | \$400-<br>699 | \$700-<br>999 | \$1,000-<br>1,999 | \$2,000-<br>2,999 | \$3,000-<br>3,999 | \$4,000-<br>4,999 | \$5,000-<br>5,999 | \$6,000-<br>9,999 | \$10,000<br>& over | Not<br>Spec. | None  | Total |
|------------|---|---------|---------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------|-------|-------|
| Native     | M | 80      | 86            | 51            | 144               | 78                | 55                | 42                | 43                | 112               | 10                 | 78           | 587   | 1,366 |
|            | F | 54      | 24            | 18            | 49                | 45                | 30                | 16                | 6                 | 9                 | -                  | 37           | 960   | 1,248 |
|            | T | 134     | 110           | 69            | 193               | 123               | 85                | 58                | 49                | 121               | 10                 | 115          | 1,547 | 2,614 |
| Non-Native | M | 8       | 10            | 10            | 21                | 11                | 11                | 17                | 13                | 225               | 206                | 67           | 138   | 737   |
|            | F | 26      | 20            | 8             | 44                | 30                | 38                | 43                | 25                | 101               | 9                  | 45           | 298   | 687   |
|            | T | 34      | 30            | 18            | 65                | 41                | 49                | 60                | 38                | 326               | 215                | 112          | 436   | 1,424 |
| Total      | M | 88      | 96            | 61            | 165               | 89                | 66                | 59                | 56                | 337               | 216                | 145          | 725   | 2,103 |
|            | F | 80      | 44            | 26            | 93                | 75                | 68                | 59                | 31                | 110               | 9                  | 82           | 1,258 | 1,935 |
|            | T | 168     | 140           | 87            | 258               | 164               | 134               | 118               | 87                | 447               | 225                | 227          | 1,983 | 4,038 |
| Native     | M | 135     | 63            | 24            | 21                | 4                 | 3                 | 3                 | -                 | 2                 | -                  | 78           | 1,033 | 1,366 |
|            | F | 7       | -             | -             | -                 | -                 | -                 | -                 | -                 | -                 | -                  | 2            | 1,239 | 1,248 |
|            | T | 142     | 63            | 24            | 21                | 4                 | 3                 | 3                 | -                 | 2                 | -                  | 80           | 2,272 | 2,614 |
| Non-Native | M | 2       | 1             | -             | -                 | -                 | -                 | 1                 | -                 | 1                 | -                  | 6            | 726   | 737   |
|            | F | -       | -             | -             | -                 | -                 | -                 | -                 | -                 | -                 | -                  | 1            | 686   | 687   |
|            | T | 2       | 1             | -             | -                 | -                 | -                 | 1                 | -                 | 1                 | -                  | 7            | 1,412 | 1,424 |
| Total      | M | 137     | 64            | 24            | 21                | 4                 | 3                 | 4                 | -                 | 3                 | -                  | 84           | 1,759 | 2,103 |
|            | F | 7       | -             | -             | -                 | -                 | -                 | -                 | -                 | -                 | -                  | 3            | 1,925 | 1,935 |
|            | T | 144     | 64            | 24            | 21                | 4                 | 3                 | 4                 | -                 | 3                 | -                  | 87           | 3,684 | 4,038 |
| Native     | M | 7       | 1             | -             | -                 | 2                 | 1                 | -                 | -                 | -                 | -                  | 9            | 1,346 | 1,366 |
|            | F | 15      | 4             | 3             | 1                 | -                 | 1                 | -                 | -                 | -                 | -                  | 3            | 1,221 | 1,248 |
|            | T | 22      | 5             | 3             | 1                 | 2                 | 2                 | -                 | -                 | -                 | -                  | 12           | 2,567 | 2,614 |
| Non-Native | M | -       | 2             | 1             | 1                 | 1                 | -                 | 1                 | 4                 | 15                | 19                 | 27           | 666   | 737   |
|            | F | 1       | -             | -             | -                 | -                 | -                 | -                 | -                 | 1                 | 1                  | 4            | 680   | 687   |
|            | T | 1       | 2             | 1             | 1                 | 1                 | -                 | 1                 | 4                 | 16                | 20                 | 31           | 1,346 | 1,424 |
| Total      | M | 7       | 3             | 1             | 1                 | 3                 | 1                 | 1                 | 4                 | 15                | 19                 | 36           | 2,012 | 2,103 |
|            | F | 16      | 4             | 3             | 1                 | -                 | 1                 | -                 | -                 | 1                 | 1                  | 7            | 1,901 | 1,935 |
|            | T | 23      | 7             | 4             | 2                 | 3                 | 2                 | 1                 | 4                 | 16                | 20                 | 43           | 3,913 | 4,038 |

Hunting, Trapping,  
Fishing  
Wages & Salaries  
Self-Employment

## APPENDIX 5 (cont'd)

NATIVE AND NON-NATIVE POPULATION 14 YEARS OF AGE AND  
OVER BY SOURCE OF INCOME AND INCOME CATEGORY, MACKENZIE IMPACT CORRIDOR

## TOTAL MACKENZIE IMPACT CORRIDOR

|            | \$1-399 | \$400-699 | \$700-999 | \$1,000-1,999 | \$2,000-2,999 | \$3,000-3,999 | \$4,000-4,999 | \$5,000-5,999 | \$6,000-9,999 | \$10,000 & over | Not Spec. | None  | Total |
|------------|---------|-----------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------|-------|-------|
| Native     | M 118   | 104       | 70        | 169           | 89            | 59            | 45            | 44            | 116           | 9               | 115       | 428   | 1,366 |
|            | F 73    | 26        | 21        | 51            | 45            | 31            | 16            | 6             | 9             | -               | 40        | 930   | 1,248 |
|            | T 191   | 130       | 91        | 220           | 134           | 90            | 61            | 50            | 125           | 9               | 155       | 1,358 | 2,614 |
| Non-Native | M 9     | 9         | 10        | 21            | 13            | 11            | 18            | 15            | 241           | 224             | 91        | 75    | 737   |
|            | F 26    | 20        | 8         | 44            | 30            | 38            | 43            | 25            | 102           | 10              | 48        | 293   | 687   |
|            | T 35    | 29        | 18        | 65            | 43            | 49            | 61            | 40            | 343           | 234             | 139       | 368   | 1,424 |
| Total      | M 127   | 113       | 80        | 190           | 102           | 70            | 63            | 59            | 357           | 233             | 206       | 503   | 2,103 |
|            | F 99    | 46        | 29        | 95            | 75            | 69            | 59            | 31            | 111           | 10              | 88        | 1,223 | 1,935 |
|            | T 226   | 159       | 109       | 285           | 177           | 139           | 122           | 90            | 468           | 243             | 294       | 1,726 | 4,038 |
| Native     | M 276   | 152       | 34        | 123           | 3             | -             | -             | -             | -             | -               | 1         | 777   | 1,366 |
|            | F 101   | 34        | 23        | 104           | 2             | -             | -             | -             | -             | -               | 1         | 983   | 1,248 |
|            | T 377   | 186       | 57        | 227           | 5             | -             | -             | -             | -             | -               | 2         | 1,760 | 2,614 |
| Non-Native | M 299   | 32        | 6         | 19            | 2             | 1             | -             | -             | 1             | -               | 1         | 376   | 737   |
|            | F 21    | 5         | 4         | 11            | -             | -             | -             | -             | -             | -               | -         | 646   | 687   |
|            | T 320   | 37        | 10        | 30            | 2             | 1             | -             | -             | 1             | -               | 1         | 1,022 | 1,424 |
| Total      | M 575   | 184       | 40        | 142           | 5             | 1             | -             | -             | 1             | -               | 2         | 1,153 | 2,103 |
|            | F 122   | 39        | 27        | 115           | 2             | -             | -             | -             | -             | -               | 1         | 1,629 | 1,935 |
|            | T 697   | 223       | 67        | 257           | 7             | 1             | -             | -             | 1             | -               | 3         | 2,782 | 4,038 |
| Native     | M 115   | 106       | 92        | 293           | 96            | 69            | 48            | 45            | 116           | 12              | 74        | 300   | 1,366 |
|            | F 125   | 49        | 41        | 154           | 46            | 33            | 18            | 6             | 9             | -               | 30        | 737   | 1,248 |
|            | T 240   | 155       | 133       | 447           | 142           | 102           | 66            | 51            | 125           | 12              | 104       | 1,037 | 2,614 |
| Non-Native | M 47    | 14        | 13        | 31            | 11            | 14            | 18            | 16            | 241           | 227             | 44        | 61    | 737   |
|            | F 32    | 22        | 12        | 52            | 31            | 38            | 43            | 25            | 101           | 11              | 44        | 276   | 687   |
|            | T 79    | 36        | 25        | 83            | 42            | 52            | 61            | 41            | 342           | 238             | 88        | 337   | 1,424 |
| Total      | M 162   | 120       | 105       | 324           | 107           | 83            | 66            | 61            | 357           | 239             | 118       | 361   | 2,103 |
|            | F 157   | 71        | 53        | 206           | 77            | 71            | 61            | 31            | 110           | 11              | 74        | 1,013 | 1,935 |
|            | T 319   | 191       | 158       | 530           | 184           | 154           | 127           | 92            | 467           | 250             | 192       | 1,374 | 4,038 |

Total Earned Income

Total Income

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 25 to 30.



## APPENDIX 6

## NATIVE AND NON-NATIVE FAMILIES BY SOURCE OF INCOME AND INCOME CATEGORY IN MACKENZIE IMPACT CORRIDOR

## TOTAL LOWER MACKENZIE REGION

|                                       | \$1-399 | \$400-<br>699 | \$700-<br>999 | \$1000-<br>1999 | \$2000-<br>2999 | \$3000-<br>3999 | \$4000-<br>4999 | \$5000-<br>5999 | \$6000-<br>999 | \$10,000<br>& over | Not<br>Spec. | None | Total |
|---------------------------------------|---------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|--------------------|--------------|------|-------|
| <b>Wages and Salaries</b>             |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                                | 14      | 14            | 17            | 65              | 43              | 35              | 31              | 26              | 75             | 24                 | 21           | 164  | 529   |
| Non-Native                            | 2       | 4             | 1             | 6               | 7               | 13              | 9               | 12              | 119            | 124                | 22           | 22   | 341   |
| Total                                 | 16      | 18            | 18            | 71              | 50              | 48              | 40              | 38              | 194            | 148                | 43           | 186  | 870   |
| <b>Hunting, Trapping,<br/>Fishing</b> |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                                | 30      | 11            | 9             | 9               | 1               | 1               | -               | 1               | 1              | 1                  | 33           | 432  | 529   |
| Non-Native                            | 2       | 1             | -             | 1               | -               | -               | -               | -               | 1              | -                  | 1            | 335  | 341   |
| Total                                 | 32      | 12            | 9             | 10              | 1               | 1               | -               | 1               | 2              | 1                  | 34           | 767  | 870   |
| <b>Self-Employment</b>                |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                                | 7       | 2             | 1             | 1               | 1               | 1               | -               | -               | -              | -                  | 7            | 509  | 529   |
| Non-Native                            | -       | 1             | 1             | 1               | -               | -               | 1               | 1               | 1              | 9                  | 6            | 320  | 341   |
| Total                                 | 7       | 3             | 2             | 2               | 1               | 1               | 1               | 1               | 1              | 9                  | 13           | 829  | 870   |
| <b>Total Earned Income</b>            |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                                | 14      | 12            | 17            | 60              | 41              | 27              | 19              | 23              | 66             | 20                 | 23           | 207  | 529   |
| Non-Native                            | 1       | 4             | -             | 7               | 7               | 13              | 9               | 13              | 118            | 135                | 22           | 12   | 341   |
| Total                                 | 15      | 16            | 17            | 67              | 48              | 40              | 28              | 36              | 184            | 155                | 45           | 219  | 870   |
| <b>Total Unearned Income</b>          |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                                | 168     | 89            | 16            | 54              | 23              | -               | -               | -               | -              | -                  | -            | 179  | 529   |
| Non-Native                            | 103     | 13            | 4             | 12              | -               | 1               | -               | -               | 1              | -                  | -            | 207  | 341   |
| Total                                 | 271     | 102           | 20            | 66              | 23              | 1               | -               | -               | 1              | -                  | -            | 386  | 870   |
| <b>Total Income</b>                   |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                                | 47      | 17            | 15            | 102             | 58              | 50              | 30              | 28              | 78             | 33                 | 10           | 61   | 529   |
| Non-Native                            | 10      | 3             | 3             | 10              | 8               | 10              | 10              | 13              | 120            | 136                | 11           | 7    | 341   |
| Total                                 | 57      | 20            | 18            | 112             | 66              | 60              | 40              | 41              | 198            | 169                | 21           | 68   | 870   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 37 to 42.

## APPENDIX 6 (cont'd)

## NATIVE AND NON-NATIVE FAMILIES BY SOURCE OF INCOME AND INCOME CATEGORY IN MACKENZIE IMPACT CORRIDOR

| TOTAL CENTRAL MACKENZIE REGION |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
|--------------------------------|---------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|--------------------|--------------|------|-------|
|                                | \$1-399 | \$400-<br>699 | \$700-<br>999 | \$1000-<br>1999 | \$2000-<br>2999 | \$3000-<br>3999 | \$4000-<br>4999 | \$5000-<br>5999 | \$6000-<br>999 | \$10,000<br>& over | Not<br>Spec. | None | Total |
| Wages and Salaries             |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                         | 12      | 20            | 12            | 23              | 13              | 14              | 5               | 6               | 11             | 6                  | 2            | 70   | 194   |
| Non-Native                     | -       | -             | 1             | 2               | 1               | 1               | 3               | 2               | 24             | 29                 | 4            | 6    | 73    |
| Total                          | 12      | 20            | 13            | 25              | 14              | 15              | 8               | 8               | 35             | 35                 | 6            | 76   | 267   |
| Hunting, Trapping              |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Fishing                        |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                         | 42      | 18            | 6             | 5               | -               | -               | -               | -               | -              | -                  | 8            | 115  | 194   |
| Non-Native                     | -       | -             | -             | -               | -               | -               | -               | -               | -              | -                  | -            | 73   | 73    |
| Total                          | 42      | 18            | 6             | 5               | -               | -               | -               | -               | -              | -                  | 8            | 188  | 267   |
| Self-Employment                |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                         | 10      | 2             | -             | -               | -               | -               | -               | -               | -              | -                  | 1            | 181  | 194   |
| Non-Native                     | -       | -             | -             | -               | -               | -               | -               | 1               | -              | -                  | 2            | 70   | 73    |
| Total                          | 10      | 2             | -             | -               | -               | -               | -               | 1               | -              | -                  | 3            | 251  | 267   |
| Total Earned Income            |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                         | 16      | 20            | 10            | 30              | 16              | 13              | 7               | 6               | 12             | 6                  | 2            | 56   | 194   |
| Non-Native                     | -       | -             | 1             | 2               | 1               | 1               | 3               | 2               | 23             | 30                 | 4            | 6    | 73    |
| Total                          | 16      | 20            | 11            | 32              | 17              | 14              | 10              | 8               | 35             | 36                 | 6            | 62   | 267   |
| Total Unearned Income          |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                         | 58      | 36            | 12            | 40              | 10              | -               | -               | -               | -              | -                  | 1            | 37   | 194   |
| Non-Native                     | 31      | 2             | -             | 1               | 1               | -               | -               | -               | -              | -                  | -            | 38   | 73    |
| Total                          | 89      | 38            | 12            | 41              | 11              | -               | -               | -               | -              | -                  | 1            | 75   | 267   |
| Total Income                   |         |               |               |                 |                 |                 |                 |                 |                |                    |              |      |       |
| Native                         | 13      | 18            | 17            | 56              | 20              | 19              | 10              | 8               | 12             | 6                  | 2            | 13   | 194   |
| Non-Native                     | 3       | -             | 1             | 2               | 1               | 1               | 4               | 2               | 23             | 30                 | 1            | 5    | 73    |
| Total                          | 16      | 18            | 18            | 58              | 21              | 20              | 14              | 10              | 35             | 36                 | 3            | 18   | 267   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 37 to 42.

## APPENDIX 6 (cont'd)

## NATIVE AND NON-NATIVE FAMILIES BY SOURCE OF INCOME AND INCOME CATEGORY IN MACKENZIE IMPACT CORRIDOR

## TOTAL UPPER MACKENZIE REGION

|                               | \$1-399 | \$400-<br>699 | \$700-<br>999 | \$1000-<br>1999 | \$2000-<br>2999 | \$3000-<br>3999 | \$4000-<br>4999 | \$5000-<br>5999 | \$6000-<br>9999 | \$10,000<br>& over | Not<br>Spec. | None | Total |
|-------------------------------|---------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|--------------|------|-------|
| Wages and Salaries            |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |      |       |
| Native                        | 30      | 32            | 9             | 41              | 18              | 13              | 6               | 17              | 33              | 6                  | 30           | 191  | 426   |
| Non-Native                    | 3       | 5             | 3             | 23              | 15              | 11              | 16              | 10              | 94              | 120                | 35           | 44   | 379   |
| Total                         | 33      | 37            | 12            | 64              | 33              | 24              | 22              | 27              | 127             | 126                | 65           | 235  | 805   |
| Hunting, Trapping,<br>Fishing |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |      |       |
| Native                        | 35      | 23            | 17            | 9               | 1               | 1               | 2               | -               | -               | -                  | 32           | 306  | 426   |
| Non-Native                    | 1       | -             | -             | -               | -               | -               | 1               | -               | -               | -                  | 6            | 371  | 379   |
| Total                         | 36      | 23            | 17            | 9               | 1               | 1               | 3               | -               | -               | -                  | 38           | 677  | 805   |
| Self-Employment               |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |      |       |
| Native                        | 3       | 1             | 2             | -               | 1               | 1               | -               | -               | -               | -                  | 4            | 414  | 426   |
| Non-Native                    | 1       | 1             | -             | -               | 1               | -               | -               | 2               | 15              | 10                 | 20           | 329  | 379   |
| Total                         | 4       | 2             | 2             | -               | 2               | 1               | -               | 2               | 15              | 10                 | 24           | 743  | 805   |
| Total Earned Income           |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |      |       |
| Native                        | 45      | 37            | 27            | 48              | 22              | 14              | 9               | 15              | 36              | 6                  | 38           | 129  | 426   |
| Non-Native                    | 3       | 4             | 3             | 20              | 14              | 11              | 17              | 11              | 102             | 134                | 45           | 15   | 379   |
| Total                         | 48      | 41            | 30            | 68              | 36              | 25              | 26              | 26              | 138             | 140                | 83           | 144  | 805   |
| Total Unearned Income         |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |      |       |
| Native                        | 115     | 46            | 16            | 48              | 19              | 3               | -               | -               | -               | -                  | -            | 179  | 426   |
| Non-Native                    | 181     | 20            | 3             | 13              | 2               | 1               | -               | -               | -               | -                  | 1            | 158  | 379   |
| Total                         | 296     | 66            | 19            | 61              | 21              | 4               | -               | -               | -               | -                  | 1            | 337  | 805   |
| Total Income                  |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |      |       |
| Native                        | 49      | 39            | 28            | 84              | 49              | 22              | 10              | 16              | 36              | 7                  | 14           | 72   | 426   |
| Non-Native                    | 24      | 7             | 5             | 24              | 17              | 10              | 17              | 12              | 101             | 136                | 19           | 7    | 379   |
| Total                         | 73      | 46            | 33            | 108             | 66              | 32              | 27              | 28              | 137             | 143                | 33           | 79   | 805   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 37 to 42.

APPENDIX 6 (cont'd)  
NATIVE AND NON-NATIVE FAMILIES BY SOURCE OF INCOME AND INCOME CATEGORY IN MACKENZIE IMPACT CORRIDOR

| TOTAL CORRIDOR                |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |       |       |
|-------------------------------|---------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|--------------|-------|-------|
|                               | \$1-399 | \$400-<br>699 | \$700-<br>999 | \$1000-<br>1999 | \$2000-<br>2999 | \$3000-<br>3999 | \$4000-<br>4999 | \$5000-<br>5999 | \$6000-<br>9999 | \$10,000<br>& over | Not<br>Spec. | None  | Total |
| Wages and Salaries            |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |       |       |
| Native                        | 56      | 66            | 38            | 129             | 74              | 62              | 42              | 49              | 119             | 36                 | 53           | 425   | 1,149 |
| Non-Native                    | 5       | 9             | 5             | 31              | 23              | 25              | 28              | 24              | 237             | 273                | 61           | 72    | 793   |
| Total                         | 61      | 75            | 43            | 160             | 97              | 87              | 70              | 73              | 356             | 309                | 114          | 497   | 1,942 |
| Hunting, Trapping,<br>Fishing |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |       |       |
| Native                        | 107     | 52            | 32            | 23              | 2               | 2               | 2               | 1               | 1               | 1                  | 73           | 853   | 1,149 |
| Non-Native                    | 3       | 1             | -             | 1               | -               | -               | 1               | -               | 1               | -                  | 7            | 779   | 793   |
| Total                         | 110     | 53            | 32            | 24              | 2               | 2               | 3               | 1               | 2               | 1                  | 80           | 1,632 | 1,942 |
| Self-Employment               |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |       |       |
| Native                        | 20      | 5             | 3             | 1               | 2               | 2               | -               | -               | -               | -                  | 12           | 1,104 | 1,149 |
| Non-Native                    | 1       | 2             | 1             | 1               | 1               | -               | 1               | 4               | 16              | 19                 | 28           | 719   | 793   |
| Total                         | 21      | 7             | 4             | 2               | 3               | 2               | 1               | 4               | 16              | 19                 | 40           | 1,823 | 1,942 |
| Total Earned Income           |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |       |       |
| Native                        | 75      | 69            | 54            | 138             | 79              | 54              | 35              | 44              | 114             | 32                 | 63           | 392   | 1,149 |
| Non-Native                    | 4       | 8             | 4             | 29              | 22              | 25              | 29              | 26              | 243             | 299                | 71           | 33    | 793   |
| Total                         | 79      | 77            | 58            | 167             | 101             | 79              | 64              | 70              | 357             | 331                | 134          | 425   | 1,942 |
| Total Unearned Income         |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |       |       |
| Native                        | 341     | 171           | 44            | 142             | 52              | 3               | -               | -               | -               | -                  | 1            | 395   | 1,149 |
| Non-Native                    | 315     | 35            | 7             | 26              | 3               | 2               | -               | -               | 1               | -                  | 1            | 403   | 793   |
| Total                         | 656     | 206           | 51            | 168             | 55              | 5               | -               | -               | 1               | -                  | 2            | 798   | 1,942 |
| Total Income                  |         |               |               |                 |                 |                 |                 |                 |                 |                    |              |       |       |
| Native                        | 109     | 74            | 60            | 242             | 127             | 91              | 50              | 52              | 126             | 46                 | 26           | 146   | 1,149 |
| Non-Native                    | 37      | 10            | 9             | 36              | 26              | 21              | 31              | 27              | 244             | 302                | 31           | 19    | 793   |
| Total                         | 146     | 84            | 69            | 278             | 153             | 112             | 81              | 79              | 370             | 348                | 57           | 165   | 1,942 |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 37 to 42.



POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

TOTAL LOWER MACKENZIE REGION

| No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native       | 22               | 8      | 30    | 1                        | -      | 1     | 2               | 1      | 3     | 1            | 1      | 2     |
|              | 66               | 30     | 96    | 28                       | 2      | 30    | -               | 3      | 3     | 13           | 2      | 15    |
|              | 71               | 20     | 91    | 18                       | -      | 18    | 2               | 1      | 3     | 21           | 1      | 22    |
|              | 50               | 14     | 64    | 29                       | 2      | 31    | 1               | 2      | 3     | 37           | 6      | 43    |
|              | 42               | 14     | 56    | 5                        | -      | 5     | -               | -      | -     | 52           | 2      | 54    |
|              | 19               | 7      | 26    | 4                        | -      | 4     | 1               | -      | 1     | 46           | 4      | 50    |
|              | 11               | 8      | 19    | 5                        | -      | 5     | -               | 1      | 1     | 46           | 6      | 52    |
|              | 112              | 76     | 188   | 31                       | 1      | 32    | 3               | 3      | 6     | 30           | 15     | 45    |
|              | 244              | 457    | 701   | 516                      | 629    | 1,145 | 628             | 623    | 1,251 | 391          | 597    | 988   |
|              | 637              | 634    | 1,271 | 637                      | 634    | 1,271 | 637             | 634    | 1,271 | 637          | 634    | 1,271 |
|              |                  |        |       |                          |        |       |                 |        |       |              |        |       |
| Non-Native   | 1                | 4      | 5     | -                        | -      | -     | -               | -      | -     | 1            | 1      | 2     |
|              | 12               | 12     | 24    | 1                        | -      | 1     | -               | -      | -     | 5            | 1      | 6     |
|              | 7                | 5      | 12    | -                        | -      | -     | 2               | -      | 2     | 6            | -      | 6     |
|              | 4                | 15     | 19    | 1                        | -      | 1     | -               | -      | -     | 2            | -      | 2     |
|              | 5                | 8      | 13    | -                        | 1      | 1     | 1               | -      | 1     | 3            | -      | 3     |
|              | 10               | 5      | 15    | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|              | 11               | 15     | 26    | -                        | -      | -     | -               | -      | -     | 2            | -      | 2     |
|              | 199              | 104    | 303   | 3                        | -      | 3     | 15              | 1      | 16    | 3            | 1      | 4     |
|              | 53               | 107    | 160   | 297                      | 274    | 571   | 284             | 274    | 558   | 280          | 272    | 552   |
|              | 302              | 275    | 577   | 302                      | 275    | 577   | 302             | 275    | 577   | 302          | 275    | 577   |
|              |                  |        |       |                          |        |       |                 |        |       |              |        |       |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

## APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## LOWER MACKENZIE REGION

## INUVIK

|            | Wages and Salary |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |        |       |
|------------|------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|--------|-------|
|            | No. of Weeks     | Male | Female | Total                    | Male | Female | Total           | Male | Female | Male         | Female | Total |
| Native     | 1-3              | 2    | 2      | 4                        | -    | -      | -               | -    | -      | -            | 1      | 1     |
|            | 4-10             | 9    | 7      | 16                       | 1    | -      | -               | -    | -      | 4            | 1      | 5     |
|            | 11-17            | 14   | 9      | 23                       | 4    | -      | -               | 1    | 1      | 3            | -      | 3     |
|            | 18-24            | 8    | 7      | 15                       | 4    | -      | -               | 1    | 2      | 6            | -      | 6     |
|            | 25-31            | 13   | 5      | 18                       | 1    | -      | -               | -    | -      | 12           | -      | 12    |
|            | 32-38            | 3    | 1      | 4                        | 2    | -      | -               | -    | -      | 4            | 1      | 5     |
|            | 39-45            | 7    | 3      | 10                       | 2    | -      | -               | -    | -      | 6            | 1      | 7     |
|            | 46-52            | 63   | 28     | 91                       | 17   | -      | -               | 1    | 3      | 8            | 2      | 10    |
|            | None             | 52   | 117    | 169                      | 140  | 179    | 319             | 169  | 173    | 128          | 173    | 301   |
|            | Total            | 171  | 179    | 350                      | 171  | 179    | 350             | 171  | 179    | 171          | 179    | 350   |
|            |                  |      |        |                          |      |        |                 |      |        |              |        |       |
| Non-Native | 1-3              | 1    | 3      | 4                        | -    | -      | -               | -    | -      | 1            | 1      | 2     |
|            | 4-10             | 11   | 10     | 21                       | 1    | -      | -               | -    | -      | 5            | 1      | 6     |
|            | 11-17            | 6    | 5      | 11                       | -    | -      | -               | 2    | -      | 6            | -      | 6     |
|            | 18-24            | 4    | 14     | 18                       | -    | -      | -               | -    | -      | 2            | -      | 2     |
|            | 25-31            | 3    | 7      | 10                       | -    | 1      | 1               | -    | -      | 1            | -      | 1     |
|            | 32-38            | 10   | 4      | 14                       | -    | -      | -               | -    | -      | -            | -      | -     |
|            | 39-45            | 11   | 13     | 24                       | -    | -      | -               | -    | -      | 2            | -      | 2     |
|            | 46-52            | 178  | 91     | 269                      | -    | -      | -               | 13   | -      | 3            | -      | 3     |
|            | None             | 42   | 95     | 137                      | 265  | 241    | 506             | 251  | 241    | 246          | 240    | 486   |
|            | Total            | 266  | 242    | 508                      | 266  | 242    | 508             | 266  | 242    | 266          | 242    | 508   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

## POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,

BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## LOWER MACKENZIE REGION

## AKLAVIK

|            | Wages and Salary |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |        |       |
|------------|------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|--------|-------|
|            | No. of Weeks     | Male | Female | Total                    | Male | Female | Total           | Male | Female | Male         | Female | Total |
| Native     | 1-3              | 8    | 2      | 10                       | -    | -      | -               | 1    | 1      | -            | -      | -     |
|            | 4-10             | 19   | 13     | 32                       | 8    | 2      | 10              | -    | 1      | 2            | -      | 2     |
|            | 11-17            | 10   | 4      | 14                       | 6    | -      | 6               | 2    | -      | 3            | -      | 3     |
|            | 18-24            | 4    | 7      | 11                       | 9    | 1      | 10              | -    | -      | 6            | 2      | 8     |
|            | 25-31            | 6    | 4      | 10                       | -    | -      | -               | -    | -      | 7            | -      | 7     |
|            | 32-38            | 3    | 3      | 6                        | -    | -      | -               | -    | -      | 6            | 3      | 9     |
|            | 39-45            | -    | 2      | 2                        | 3    | -      | 3               | -    | -      | 7            | 3      | 10    |
|            | 46-52            | 17   | 19     | 36                       | 7    | 1      | 8               | 1    | -      | 10           | 8      | 18    |
|            | None             | 72   | 99     | 171                      | 106  | 149    | 255             | 135  | 151    | 98           | 137    | 235   |
|            | Total            | 139  | 153    | 292                      | 139  | 153    | 292             | 139  | 153    | 139          | 153    | 292   |
| Non-Native | 1-3              | -    | 1      | 1                        | -    | -      | -               | -    | -      | -            | -      | -     |
|            | 4-10             | 1    | 1      | 2                        | -    | -      | -               | -    | -      | -            | -      | -     |
|            | 11-17            | 1    | -      | 1                        | -    | -      | -               | -    | -      | -            | -      | -     |
|            | 18-24            | -    | 1      | 1                        | 1    | -      | 1               | -    | -      | -            | -      | -     |
|            | 25-31            | 1    | 1      | 2                        | -    | -      | -               | 1    | -      | 1            | -      | 1     |
|            | 32-38            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -      | -     |
|            | 39-45            | -    | 1      | 1                        | -    | -      | -               | -    | -      | -            | -      | -     |
|            | 46-52            | 14   | 7      | 21                       | 3    | -      | 3               | 2    | -      | -            | -      | -     |
|            | None             | 11   | 9      | 20                       | 24   | 21     | 45              | 25   | 21     | 27           | 21     | 48    |
|            | Total            | 28   | 21     | 49                       | 28   | 21     | 49              | 28   | 21     | 28           | 21     | 49    |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## LOWER MACKENZIE REGION

### ARCTIC RED RIVER

|            | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native     | 1-3          | -                | -      | -     | 1                        | -      | 1     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | -                | 2      | 2     | 5                        | -      | 5     | -               | -      | -     | 5            | 1      | 6     |
|            | 11-17        | 3                | -      | 3     | 2                        | -      | 2     | -               | -      | -     | 6            | -      | 6     |
|            | 18-24        | 4                | -      | 4     | 2                        | -      | 2     | -               | -      | -     | 4            | 1      | 5     |
|            | 25-31        | 4                | -      | 4     | 1                        | -      | 1     | -               | -      | -     | 2            | -      | 2     |
|            | 32-38        | 3                | 1      | 4     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 39-45        | 4                | -      | 4     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 46-52        | 4                | 1      | 5     | 4                        | -      | 4     | -               | -      | -     | 1            | 2      | 3     |
|            | None         | 14               | 24     | 38    | 21                       | 28     | 49    | 36              | 28     | 64    | 18           | 24     | 42    |
|            | Total        | 36               | 28     | 64    | 36                       | 28     | 64    | 36              | 28     | 64    | 36           | 28     | 64    |
| Non-Native | 1-3          |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 4-10         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 11-17        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 18-24        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 25-31        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 32-38        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 39-45        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 46-52        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | None         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | Total        |                  |        |       |                          |        |       |                 |        |       |              |        |       |

Information not available

Information not available

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.



POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

LOWER MACKENZIE REGION

FORT McPHERSON

|            | <u>Wages and Salary</u> |      |        | <u>Hunting Trapping Fishing</u> |      |        | <u>Self-Employment</u> |      |        | <u>Without Work</u> |        |       |
|------------|-------------------------|------|--------|---------------------------------|------|--------|------------------------|------|--------|---------------------|--------|-------|
|            | No. of Weeks            | Male | Female | Total                           | Male | Female | Total                  | Male | Female | Male                | Female | Total |
| Native     | 1-3                     | 7    | 2      | 9                               | -    | -      | -                      | 1    | -      | 1                   | -      | 1     |
|            | 4-10                    | 23   | -      | 23                              | 11   | -      | 11                     | -    | 2      | -                   | -      | -     |
|            | 11-17                   | 19   | 1      | 20                              | 1    | -      | 1                      | -    | -      | 3                   | 1      | 4     |
|            | 18-24                   | 15   | -      | 15                              | 8    | -      | 8                      | -    | -      | 14                  | 3      | 17    |
|            | 25-31                   | 7    | 1      | 8                               | 3    | -      | 3                      | -    | -      | 14                  | 2      | 16    |
|            | 32-38                   | 4    | 1      | 5                               | 2    | -      | 2                      | -    | -      | 17                  | -      | 17    |
|            | 39-45                   | -    | 2      | 2                               | -    | -      | -                      | -    | -      | 20                  | -      | 20    |
|            | 46-52                   | 11   | 10     | 21                              | -    | -      | -                      | -    | -      | 5                   | -      | 5     |
|            | None                    | 63   | 139    | 202                             | 124  | 156    | 280                    | 148  | 154    | 75                  | 150    | 225   |
|            | Total                   | 149  | 156    | 305                             | 149  | 156    | 305                    | 149  | 156    | 149                 | 156    | 305   |
| Non-Native | 1-3                     | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 4-10                    | -    | 1      | 1                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 11-17                   | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 18-24                   | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 25-31                   | 1    | -      | 1                               | -    | -      | -                      | -    | -      | 1                   | -      | 1     |
|            | 32-38                   | -    | 1      | 1                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 39-45                   | -    | 1      | 1                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 46-52                   | 7    | 6      | 13                              | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | None                    | -    | 3      | 3                               | 8    | 12     | 20                     | 8    | 12     | 7                   | 11     | 18    |
|            | Total                   | 8    | 12     | 20                              | 8    | 12     | 20                     | 8    | 12     | 8                   | 12     | 20    |

Source: DLAND Mackenzpe Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## LOWER MACKENZIE REGION

### TUKTOYAKTUK

|                            | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|----------------------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|                            |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native                     | 1-3          | 5                | 2      | 7     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|                            | 4-10         | 15               | 8      | 23    | 3                        | -      | 3     | -               | -      | -     | 2            | -      | 2     |
|                            | 11-17        | 25               | 6      | 31    | 5                        | -      | 5     | -               | -      | -     | 6            | -      | 6     |
|                            | 18-24        | 19               | -      | 19    | 6                        | 1      | 7     | -               | -      | -     | 7            | -      | 7     |
|                            | 25-31        | 12               | 4      | 16    | -                        | -      | -     | -               | -      | -     | 17           | -      | 17    |
|                            | 32-38        | 6                | 1      | 7     | -                        | -      | -     | -               | -      | 1     | 19           | -      | 19    |
|                            | 39-45        | -                | 1      | 1     | -                        | -      | -     | -               | 1      | -     | 13           | 2      | 15    |
|                            | 46-52        | 17               | 18     | 35    | 3                        | -      | 3     | 1               | -      | 1     | 6            | 3      | 9     |
|                            | None         | 43               | 78     | 121   | 125                      | 117    | 242   | 140             | 117    | 257   | 72           | 113    | 185   |
|                            | Total        | 142              | 118    | 260   | 142                      | 118    | 260   | 142             | 118    | 260   | 142          | 118    | 260   |
| Non-Native                 | 1-3          |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                            | 4-10         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                            | 11-17        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                            | 18-24        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                            | 25-31        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                            | 32-38        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                            | 39-45        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                            | 46-52        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                            | None         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                            | Total        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
| Information not available. |              |                  |        |       |                          |        |       |                 |        |       |              |        |       |

Information not available.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## TOTAL CENTRAL MACKENZIE REGION

|        | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|--------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|        |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native | 1-3          | 13               | -      | 13    | -                        | -      | -     | -               | 1      | 1     | -            | -      | -     |
|        | 4-10         | 39               | 15     | 54    | 15                       | -      | 15    | 1               | 3      | 4     | 9            | 2      | 11    |
|        | 11-17        | 21               | 3      | 24    | 49                       | 1      | 50    | 1               | 4      | 5     | 15           | 1      | 16    |
|        | 18-24        | 16               | 2      | 18    | 24                       | -      | 24    | -               | 3      | 3     | 17           | 3      | 20    |
|        | 25-31        | 9                | 1      | 10    | 6                        | -      | 6     | -               | 1      | 1     | 19           | 1      | 20    |
|        | 32-38        | 1                | 4      | 5     | 3                        | -      | 3     | -               | -      | -     | 30           | 1      | 31    |
|        | 39-45        | 5                | 4      | 9     | 1                        | -      | 1     | -               | -      | -     | 20           | 2      | 22    |
|        | 46-52        | 31               | 11     | 42    | -                        | -      | -     | -               | -      | -     | 13           | 6      | 19    |
|        | None         | 112              | 186    | 298   | 149                      | 225    | 374   | 245             | 214    | 459   | 124          | 210    | 334   |
|        | Total        | 247              | 226    | 473   | 247                      | 226    | 473   | 247             | 226    | 473   | 247          | 226    | 473   |
|        | Non-Native   | 1-3              | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
| 4-10   |              | -                | 3      | 3     | -                        | -      | -     | 1               | -      | 1     | 1            | -      | 1     |
| 11-17  |              | 2                | 3      | 5     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
| 18-24  |              | 1                | -      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
| 25-31  |              | 1                | 3      | 4     | 1                        | -      | 1     | -               | -      | -     | -            | -      | -     |
| 32-38  |              | -                | 1      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
| 39-45  |              | 2                | 1      | 3     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
| 46-52  |              | 57               | 15     | 72    | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
| None   |              | 3                | 30     | 33    | 65                       | 56     | 121   | 65              | 56     | 121   | 65           | 56     | 121   |
| Total  |              | 66               | 56     | 122   | 66                       | 56     | 122   | 66              | 56     | 122   | 66           | 56     | 122   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

## APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## CENTRAL MACKENZIE REGION

## NORMAN WELLS

|            | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native     | 1-3          | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 11-17        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 18-24        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 25-31        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 32-38        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 39-45        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 46-52        | 1                | -      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | None         | -                | -      | -     | 1                        | -      | 1     | 1               | 1      | -     | 1            | -      | 1     |
|            | Total        | 1                | -      | 1     | 1                        | -      | 1     | 1               | 1      | -     | 1            | -      | 1     |
| Non-Native | 1-3          | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | -                | 2      | 2     | -                        | -      | -     | -               | -      | -     | 1            | -      | 1     |
|            | 11-17        | 1                | 2      | 3     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 18-24        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 25-31        | -                | 1      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 32-38        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 39-45        | 1                | -      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 46-52        | 30               | 6      | 36    | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | None         | -                | 17     | 17    | 32                       | 28     | 60    | 31              | 28     | 59    | 31           | 28     | 59    |
|            | Total        | 32               | 28     | 60    | 32                       | 28     | 60    | 32              | 28     | 60    | 32           | 28     | 60    |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.



# APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## CENTRAL MACKENZIE REGION

### COLVILLE LAKE

| No. of Weeks | Wages and Salary          |        | Hunting Trapping Fishing |      | Self-Employment |       | Without Work |        |       |
|--------------|---------------------------|--------|--------------------------|------|-----------------|-------|--------------|--------|-------|
|              | Male                      | Female | Total                    | Male | Female          | Total | Male         | Female | Total |
| 1-3          | 6                         | -      | 6                        | -    | -               | -     | -            | -      | -     |
| 4-10         | 8                         | 2      | 10                       | 1    | -               | 1     | -            | -      | -     |
| 11-17        | 1                         | 1      | 2                        | 3    | -               | -     | -            | -      | -     |
| 18-24        | -                         | -      | -                        | 4    | -               | -     | 2            | -      | 2     |
| 25-31        | 1                         | -      | 1                        | 1    | -               | -     | 5            | -      | 5     |
| 32-38        | -                         | -      | -                        | -    | -               | -     | 2            | -      | 2     |
| 39-45        | -                         | -      | -                        | -    | -               | -     | 2            | -      | 2     |
| 46-52        | -                         | -      | -                        | -    | -               | -     | 4            | 2      | 6     |
| None         | 5                         | 16     | 21                       | 12   | 19              | 31    | 21           | 18     | 39    |
| Total        | 21                        | 19     | 40                       | 21   | 19              | 40    | 21           | 19     | 40    |
| Non-Native   |                           |        |                          |      |                 |       |              |        |       |
| 1-3          | Information not available |        |                          |      |                 |       |              |        |       |
| 4-10         | Information not available |        |                          |      |                 |       |              |        |       |
| 11-17        | Information not available |        |                          |      |                 |       |              |        |       |
| 18-24        | Information not available |        |                          |      |                 |       |              |        |       |
| 25-31        | Information not available |        |                          |      |                 |       |              |        |       |
| 32-38        | Information not available |        |                          |      |                 |       |              |        |       |
| 39-45        | Information not available |        |                          |      |                 |       |              |        |       |
| 46-52        | Information not available |        |                          |      |                 |       |              |        |       |
| None         | Information not available |        |                          |      |                 |       |              |        |       |
| Total        | Information not available |        |                          |      |                 |       |              |        |       |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

## APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## CENTRAL MACKENZIE REGION

## FORT FRANKLIN

|            | Wages and Salary |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |      |        |       |
|------------|------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|------|--------|-------|
|            | No. of Weeks     | Male | Female | Total                    | Male | Female | Total           | Male | Female | Total        | Male | Female | Total |
| Native     | 1-3              | 5    | -      | 5                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 4-10             | 19   | 9      | 28                       | 1    | -      | 1               | 1    | -      | 1            | 4    | 1      | 5     |
|            | 11-17            | 5    | 1      | 6                        | 25   | 1      | 26              | 1    | 2      | 3            | 7    | 1      | 8     |
|            | 18-24            | 5    | 1      | 6                        | 13   | -      | 13              | -    | 1      | 1            | 8    | 1      | 9     |
|            | 25-31            | 5    | 1      | 6                        | 2    | -      | 2               | -    | -      | -            | 6    | 1      | 7     |
|            | 32-38            | -    | 2      | 2                        | 3    | -      | 3               | -    | -      | -            | 13   | -      | 13    |
|            | 39-45            | 1    | 3      | 4                        | 1    | -      | 1               | -    | -      | -            | 2    | -      | 2     |
|            | 46-52            | 12   | 4      | 16                       | -    | -      | -               | -    | -      | -            | 3    | -      | 3     |
|            | None             | 38   | 62     | 100                      | 45   | 82     | 127             | 88   | 80     | 168          | 47   | 79     | 126   |
|            | Total            | 90   | 83     | 173                      | 90   | 83     | 173             | 90   | 83     | 173          | 90   | 83     | 173   |
| Non-Native | 1-3              | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 4-10             | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 11-17            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 18-24            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 25-31            | 1    | 1      | 2                        | 1    | -      | 1               | -    | -      | -            | -    | -      | -     |
|            | 32-38            | -    | 1      | 1                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 39-45            | 1    | 1      | 2                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 46-52            | 11   | 3      | 14                       | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | None             | 2    | 7      | 9                        | 14   | 13     | 27              | 15   | 13     | 28           | 15   | 13     | 28    |
|            | Total            | 15   | 13     | 28                       | 15   | 13     | 28              | 15   | 13     | 28           | 15   | 13     | 28    |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 7 (cont'd)

## POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,

### BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

#### CENTRAL MACKENZIE REGION

#### FORT GOOD HOPE

|            | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native     | 1-3          | 2                | -      | 2     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | 8                | 3      | 11    | 8                        | -      | 8     | -               | -      | -     | 1            | -      | 1     |
|            | 11-17        | 9                | 1      | 10    | 5                        | -      | 5     | -               | -      | -     | 2            | -      | 2     |
|            | 18-24        | 6                | 1      | 7     | 3                        | -      | 3     | -               | -      | -     | 3            | 1      | 4     |
|            | 25-31        | 2                | -      | 2     | 1                        | -      | 1     | -               | -      | -     | 5            | -      | 5     |
|            | 32-38        | -                | 1      | 1     | -                        | -      | -     | -               | -      | -     | 10           | 1      | 11    |
|            | 39-45        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | 9            | 1      | 10    |
|            | 46-52        | 8                | 3      | 11    | -                        | -      | -     | -               | -      | -     | 2            | 3      | 5     |
|            | None         | 39               | 61     | 100   | 57                       | 70     | 127   | 74              | 70     | 144   | 42           | 64     | 106   |
|            | Total        | 74               | 70     | 144   | 74                       | 70     | 144   | 74              | 70     | 144   | 74           | 70     | 144   |
| Non-Native | 1-3          | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 11-17        | -                | 1      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 18-24        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 25-31        | -                | 1      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 32-38        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 39-45        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 46-52        | 6                | 3      | 9     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | None         | 1                | 2      | 3     | 7                        | 7      | 14    | 7               | 7      | 14    | 7            | 7      | 14    |
|            | Total        | 7                | 7      | 14    | 7                        | 7      | 14    | 7               | 7      | 14    | 7            | 7      | 14    |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

## APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## CENTRAL MACKENZIE REGION

## FORT NORMAN

|            | Wages and Salary |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |      |        |       |
|------------|------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|------|--------|-------|
|            | No. of Weeks     | Male | Female | Total                    | Male | Female | Total           | Male | Female | Total        | Male | Female | Total |
| Native     | 1-3              | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 4-10             | 4    | 1      | 5                        | 5    | -      | 5               | -    | 3      | 3            | 4    | 1      | 5     |
|            | 11-17            | 6    | -      | 6                        | 16   | -      | 16              | -    | 2      | 2            | 6    | -      | 6     |
|            | 18-24            | 5    | -      | 5                        | 4    | -      | 4               | -    | 2      | 2            | 4    | 1      | 5     |
|            | 25-31            | 1    | -      | 1                        | 2    | -      | 2               | -    | 1      | 1            | 3    | -      | 3     |
|            | 32-38            | 1    | 1      | 2                        | -    | -      | -               | -    | -      | -            | 5    | -      | 5     |
|            | 39-45            | 4    | 1      | 5                        | -    | -      | -               | -    | -      | -            | 7    | 1      | 8     |
|            | 46-52            | 10   | 4      | 14                       | -    | -      | -               | -    | -      | -            | 4    | 1      | 5     |
|            | None             | 30   | 47     | 77                       | 34   | 54     | 88              | 61   | 46     | 107          | 28   | 50     | 78    |
|            | Total            | 61   | 54     | 115                      | 61   | 54     | 115             | 61   | 54     | 115          | 61   | 54     | 115   |
| Non-Native | 1-3              | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 4-10             | -    | 1      | 1                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 11-17            | 1    | -      | 1                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 18-24            | 1    | -      | 1                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 25-31            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 32-38            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 39-45            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 46-52            | 10   | 3      | 13                       | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | None             | -    | 4      | 4                        | 12   | 8      | 20              | 12   | 8      | 20           | 12   | 8      | 20    |
|            | Total            | 12   | 8      | 20                       | 12   | 8      | 20              | 12   | 8      | 20           | 12   | 8      | 20    |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.



## APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## TOTAL UPPER MACKENZIE REGION

|            | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native     | 1-3          | 23               | 3      | 26    | 1                        | -      | 1     | -               | -      | -     | 1            | 4      | 5     |
|            | 4-10         | 72               | 21     | 93    | 7                        | 1      | 8     | 2               | 1      | 3     | 10           | 1      | 11    |
|            | 11-17        | 36               | 6      | 42    | 4                        | -      | 4     | -               | -      | -     | 16           | 3      | 19    |
|            | 18-24        | 15               | 6      | 21    | 21                       | -      | 21    | 2               | -      | 2     | 28           | 1      | 29    |
|            | 25-31        | 10               | -      | 10    | 7                        | 1      | 8     | -               | -      | -     | 23           | 2      | 25    |
|            | 32-38        | 11               | 2      | 13    | 2                        | -      | 2     | 2               | -      | 2     | 20           | 1      | 21    |
|            | 39-45        | 8                | 4      | 12    | 11                       | -      | 11    | 1               | -      | 1     | 12           | -      | 12    |
|            | 46-52        | 69               | 27     | 96    | 83                       | -      | 83    | 2               | 1      | 3     | 43           | 9      | 52    |
|            | None         | 238              | 319    | 557   | 346                      | 386    | 732   | 473             | 386    | 859   | 329          | 367    | 696   |
|            | Total        | 482              | 388    | 870   | 482                      | 388    | 870   | 482             | 388    | 870   | 482          | 388    | 870   |
| Non-Native | 1-3          | -                | 6      | 6     | -                        | -      | -     | -               | -      | -     | 1            | 1      | 2     |
|            | 4-10         | 15               | 16     | 31    | -                        | -      | -     | 2               | 1      | 3     | 5            | 8      | 13    |
|            | 11-17        | 15               | 17     | 32    | -                        | -      | -     | 1               | -      | 1     | 5            | 4      | 9     |
|            | 18-24        | 18               | 19     | 37    | -                        | -      | -     | -               | -      | -     | 7            | 4      | 11    |
|            | 25-31        | 6                | 11     | 17    | -                        | -      | -     | 4               | 1      | 5     | 7            | -      | 7     |
|            | 32-38        | 8                | 11     | 19    | -                        | -      | -     | 2               | -      | 2     | 6            | 3      | 9     |
|            | 39-45        | 6                | 9      | 15    | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 46-52        | 221              | 108    | 329   | 6                        | -      | 6     | 38              | 3      | 41    | -            | -      | -     |
|            | None         | 80               | 159    | 239   | 363                      | 356    | 719   | 322             | 351    | 673   | 338          | 336    | 674   |
|            | Total        | 369              | 356    | 725   | 369                      | 356    | 725   | 369             | 356    | 725   | 369          | 356    | 725   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

UPPER MACKENZIE REGION

FORT SIMPSON

| No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native       | 7                | 1      | 8     | 1                        | -      | 1     | -               | -      | -     | -            | 3      | 3     |
|              | 8                | 5      | 13    | 1                        | -      | 1     | -               | -      | -     | 3            | 1      | 4     |
|              | 4                | 1      | 5     | 1                        | -      | 1     | -               | -      | -     | 2            | 1      | 3     |
|              | 3                | 2      | 5     | -                        | -      | -     | -               | -      | -     | 3            | -      | 3     |
|              | 1                | -      | 1     | -                        | 1      | 1     | -               | -      | -     | 6            | -      | 6     |
|              | 1                | 2      | 3     | -                        | -      | -     | -               | -      | -     | 2            | -      | 2     |
|              | 3                | 1      | 4     | -                        | -      | -     | -               | -      | -     | 2            | -      | 2     |
|              | 19               | 7      | 26    | 2                        | -      | 2     | -               | -      | -     | 13           | 2      | 15    |
|              | 64               | 80     | 144   | 105                      | 98     | 203   | 110             | 99     | 209   | 79           | 92     | 171   |
|              | 110              | 99     | 209   | 110                      | 99     | 209   | 110             | 99     | 209   | 110          | 99     | 209   |
|              |                  |        |       |                          |        |       |                 |        |       |              |        |       |
| Non-Native   | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|              | 2                | 3      | 5     | -                        | -      | -     | -               | -      | -     | -            | 1      | 1     |
|              | -                | 1      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|              | -                | -      | -     | -                        | -      | -     | -               | -      | -     | 1            | -      | 1     |
|              | -                | 1      | 1     | -                        | -      | -     | 1               | -      | 1     | -            | -      | -     |
|              | 1                | 1      | 2     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|              | 1                | -      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|              | 22               | 15     | 37    | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|              | 5                | 14     | 19    | 31                       | 35     | 66    | 30              | 35     | 65    | 30           | 34     | 64    |
|              | 31               | 35     | 66    | 31                       | 35     | 66    | 31              | 35     | 66    | 31           | 35     | 66    |
|              |                  |        |       |                          |        |       |                 |        |       |              |        |       |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## UPPER MACKENZIE REGION

## FORT LIARD

|            | Wages and Salary |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |      |        |       |
|------------|------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|------|--------|-------|
|            | No. of Weeks     | Male | Female | Total                    | Male | Female | Total           | Male | Female | Total        | Male | Female | Total |
| Native     | 1-3              | 1    | -      | 1                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 4-10             | 24   | -      | 24                       | -    | -      | -               | -    | 1      | 1            | 1    | -      | 1     |
|            | 11-17            | 5    | -      | 5                        | 2    | -      | 2               | -    | -      | -            | -    | -      | -     |
|            | 18-24            | 1    | -      | 1                        | 2    | -      | 2               | -    | -      | -            | -    | -      | -     |
|            | 25-31            | -    | -      | -                        | 1    | -      | 1               | -    | -      | -            | -    | -      | -     |
|            | 32-38            | 2    | -      | 2                        | -    | -      | -               | -    | -      | -            | 1    | -      | 1     |
|            | 39-45            | -    | -      | -                        | 4    | -      | 4               | -    | -      | -            | 1    | -      | 1     |
|            | 46-52            | 6    | 2      | 8                        | 52   | -      | 52              | 1    | 1      | 2            | -    | -      | -     |
|            | None             | 42   | 48     | 90                       | 20   | 50     | 70              | 80   | 48     | 128          | 78   | 50     | 128   |
|            | Total            | 81   | 50     | 131                      | 81   | 50     | 131             | 81   | 50     | 131          | 81   | 50     | 131   |
| Non-Native | 1-3              | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 4-10             | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 11-17            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 18-24            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 25-31            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 32-38            | -    | 1      | 1                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 39-45            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 46-52            | 4    | 1      | 5                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | None             | 1    | 2      | 3                        | 5    | 4      | 9               | 5    | 4      | 9            | 5    | 4      | 9     |
|            | Total            | 5    | 4      | 9                        | 5    | 4      | 9               | 5    | 4      | 9            | 5    | 4      | 9     |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

## APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## UPPER MACKENZIE REGION

## FORT PROVIDENCE

|        | No. of Weeks | <u>Wages and Salary</u> |        | <u>Hunting Trapping Fishing</u> |      | <u>Self-Employment</u> |       |      | <u>Without Work</u> |       |   |
|--------|--------------|-------------------------|--------|---------------------------------|------|------------------------|-------|------|---------------------|-------|---|
|        |              | Male                    | Female | Total                           | Male | Female                 | Total | Male | Female              | Total |   |
| Native | 1-3          | 3                       | 1      | 4                               | -    | -                      | -     | -    | -                   | -     | - |
|        | 4-10         | 11                      | 1      | 12                              | -    | -                      | -     | 2    | -                   | 2     |   |
|        | 11-17        | 6                       | 3      | 9                               | -    | -                      | -     | 4    | 1                   | 5     |   |
|        | 18-24        | 3                       | -      | 3                               | 16   | -                      | 2     | 12   | -                   | 12    |   |
|        | 25-31        | 2                       | -      | 2                               | 4    | -                      | -     | 9    | 1                   | 10    |   |
|        | 32-38        | -                       | -      | -                               | -    | -                      | -     | 6    | -                   | 6     |   |
|        | 39-45        | 1                       | 1      | 2                               | -    | -                      | -     | 2    | -                   | 2     |   |
|        | 46-52        | 11                      | 3      | 14                              | 2    | -                      | -     | 3    | 2                   | 5     |   |
|        | None         | 38                      | 62     | 100                             | 53   | 71                     | 124   | 73   | 67                  | 104   |   |
|        | Total        | 75                      | 71     | 146                             | 75   | 71                     | 146   | 75   | 71                  | 146   |   |
|        | Non-Native   | 1-3                     |        |                                 |      |                        |       |      |                     |       |   |
| 4-10   |              |                         |        |                                 |      |                        |       |      |                     |       |   |
| 11-17  |              |                         |        |                                 |      |                        |       |      |                     |       |   |
| 18-24  |              |                         |        |                                 |      |                        |       |      |                     |       |   |
| 25-31  |              |                         |        |                                 |      |                        |       |      |                     |       |   |
| 32-38  |              |                         |        |                                 |      |                        |       |      |                     |       |   |
| 39-45  |              |                         |        |                                 |      |                        |       |      |                     |       |   |
| 46-52  |              |                         |        |                                 |      |                        |       |      |                     |       |   |
| None   |              |                         |        |                                 |      |                        |       |      |                     |       |   |
| Total  |              |                         |        |                                 |      |                        |       |      |                     |       |   |

Information not available.

Information not available.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

UPPER MACKENZIE REGION

FORT WRIGLEY

|            | <u>Wages and Salary</u> |      |        | <u>Hunting Trapping Fishing</u> |      |        | <u>Self-Employment</u> |      |        | <u>Without Work</u> |        |       |
|------------|-------------------------|------|--------|---------------------------------|------|--------|------------------------|------|--------|---------------------|--------|-------|
|            | No. of Weeks            | Male | Female | Total                           | Male | Female | Total                  | Male | Female | Male                | Female | Total |
| Native     | 1-3                     | 9    | 1      | 10                              | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 4-10                    | 5    | 2      | 7                               | 2    | 1      | 3                      | -    | -      | -                   | -      | -     |
|            | 11-17                   | 2    | -      | 2                               | -    | -      | -                      | -    | -      | 2                   | -      | 2     |
|            | 18-24                   | 1    | 1      | 2                               | 2    | -      | 2                      | -    | -      | 4                   | 1      | 5     |
|            | 25-31                   | 1    | -      | 1                               | -    | -      | -                      | -    | -      | 3                   | 1      | 4     |
|            | 32-38                   | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | 1      | 1     |
|            | 39-45                   | 1    | -      | 1                               | -    | -      | -                      | -    | -      | 1                   | -      | 1     |
|            | 46-52                   | 2    | -      | 2                               | -    | -      | -                      | -    | -      | 11                  | 1      | 12    |
|            | None                    | 27   | 33     | 60                              | 44   | 36     | 80                     | 48   | 37     | 27                  | 33     | 60    |
|            | Total                   | 48   | 37     | 85                              | 48   | 37     | 85                     | 48   | 37     | 48                  | 37     | 85    |
| Non-Native | 1-3                     | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 4-10                    | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 11-17                   | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 18-24                   | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 25-31                   | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 32-38                   | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 39-45                   | -    | 1      | 1                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 46-52                   | 5    | 1      | 6                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | None                    | -    | 2      | 2                               | 5    | 4      | 9                      | 5    | 4      | 5                   | 4      | 9     |
|            | Total                   | 5    | 4      | 9                               | 5    | 4      | 9                      | 5    | 4      | 5                   | 4      | 9     |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.



# APPENDIX 7 (cont'd)

## POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED, BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

### UPPER MACKENZIE REGION

#### JEAN MARIE RIVER

|            | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native     | 1-3          | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | 8                | 1      | 9     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 11-17        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | 2            | -      | 2     |
|            | 18-24        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 25-31        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 32-38        | 1                | -      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 39-45        | -                | -      | -     | 4                        | -      | 4     | -               | -      | -     | -            | -      | -     |
|            | 46-52        | 1                | -      | 1     | 1                        | -      | 1     | -               | -      | -     | -            | -      | -     |
|            | None         | 5                | 12     | 17    | 10                       | 13     | 23    | 15              | 13     | 28    | 13           | 13     | 26    |
|            | Total        | 15               | 13     | 28    | 15                       | 13     | 28    | 15              | 13     | 28    | 15           | 13     | 28    |
| Non-Native | 1-3          |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 4-10         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 11-17        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 18-24        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 25-31        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 32-48        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 39-45        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 46-52        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | None         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | Total        |                  |        |       |                          |        |       |                 |        |       |              |        |       |

No non-natives in settlement

No non-natives in settlement

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 7 (cont'd)

## POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED, BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

### UPPER MACKENZIE REGION

#### NAHANNI BUTTE

|            | No. of Weeks | Wages and Salary |        | Hunting Trapping Fishing |      | Self-Employment |       | Without Work |        |       |
|------------|--------------|------------------|--------|--------------------------|------|-----------------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total                    | Male | Female          | Total | Male         | Female | Total |
| Native     | 1-3          | -                | -      | -                        | -    | -               | -     | -            | -      | -     |
|            | 4-10         | 3                | -      | 3                        | -    | -               | -     | 2            | -      | 2     |
|            | 11-17        | 5                | -      | 5                        | -    | -               | -     | -            | -      | -     |
|            | 18-24        | -                | -      | -                        | 1    | -               | -     | 1            | -      | 1     |
|            | 25-31        | -                | -      | -                        | -    | -               | -     | -            | -      | -     |
|            | 32-38        | -                | -      | -                        | 1    | -               | 2     | -            | -      | -     |
|            | 39-45        | -                | -      | -                        | 3    | -               | 1     | -            | -      | -     |
|            | 46-52        | -                | -      | -                        | 6    | -               | -     | -            | -      | -     |
|            | None         | 8                | 10     | 18                       | 5    | 10              | 13    | 13           | 10     | 2     |
|            | Total        | 16               | 10     | 26                       | 16   | 10              | 26    | 16           | 10     | 26    |
| Non-Native | 1-3          |                  |        |                          |      |                 |       |              |        |       |
|            | 4-10         |                  |        |                          |      |                 |       |              |        |       |
|            | 11-17        |                  |        |                          |      |                 |       |              |        |       |
|            | 18-24        |                  |        |                          |      |                 |       |              |        |       |
|            | 25-31        |                  |        |                          |      |                 |       |              |        |       |
|            | 32-38        |                  |        |                          |      |                 |       |              |        |       |
|            | 38-45        |                  |        |                          |      |                 |       |              |        |       |
|            | 46-52        |                  |        |                          |      |                 |       |              |        |       |
|            | None         |                  |        |                          |      |                 |       |              |        |       |
|            | Total        |                  |        |                          |      |                 |       |              |        |       |

Information not available.

Information not available.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## UPPER MACKENZIE REGION

### TROUT LAKE

|            | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native     | 1-3          | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 11-17        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 18-24        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 25-31        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 32-38        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 39-45        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 46-52        | -                | -      | -     | 10                       | -      | 10    | -               | -      | -     | -            | 2      | 2     |
|            | None         | 12               | 11     | 23    | 2                        | 11     | 13    | 12              | 11     | 23    | 12           | 9      | 21    |
|            | Total        | 12               | 11     | 23    | 12                       | 11     | 23    | 12              | 11     | 23    | 12           | 11     | 23    |
| Non-Native | 1-3          |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 4-10         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 11-17        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 18-24        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 25-31        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 32-38        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 39-45        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | 46-52        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | None         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|            | Total        |                  |        |       |                          |        |       |                 |        |       |              |        |       |

No non-natives in settlement.

No non-natives in settlement.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 7 (cont'd)

POPULATION 14 YEARS OF AGE AND OVER ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## UPPER MACKENZIE REGION

### HAY RIVER

|            | No. of Weeks | Wages and Salary |        | Hunting Trapping Fishing |      | Self-Employment |       | Without Work |        |       |
|------------|--------------|------------------|--------|--------------------------|------|-----------------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total                    | Male | Female          | Total | Male         | Female | Total |
| Native     | 1-3          | 3                | -      | 3                        | -    | -               | -     | -            | 1      | 2     |
|            | 4-10         | 13               | 12     | 25                       | 4    | 2               | -     | 2            | 2      | 2     |
|            | 11-17        | 14               | 2      | 16                       | 1    | -               | -     | 6            | 1      | 7     |
|            | 18-24        | 7                | 3      | 10                       | -    | -               | -     | 8            | -      | 8     |
|            | 25-31        | 6                | -      | 6                        | 2    | -               | -     | 5            | -      | 5     |
|            | 32-38        | 7                | -      | 7                        | 1    | -               | -     | 11           | -      | 11    |
|            | 39-45        | 3                | 2      | 5                        | -    | -               | -     | 6            | -      | 6     |
|            | 46-52        | 30               | 15     | 45                       | 10   | 1               | -     | 16           | 2      | 18    |
|            | None         | 42               | 63     | 105                      | 107  | 97              | 97    | 219          | 93     | 163   |
|            | Total        | 125              | 97     | 222                      | 125  | 97              | 222   | 125          | 97     | 222   |
| Non-Native | 1-3          | -                | 6      | 6                        | -    | -               | -     | -            | 1      | 2     |
|            | 4-10         | 13               | 13     | 26                       | -    | 2               | 1     | 3            | 5      | 12    |
|            | 11-17        | 15               | 16     | 31                       | -    | 1               | -     | 1            | 5      | 9     |
|            | 18-24        | 18               | 19     | 37                       | -    | -               | -     | -            | 6      | 10    |
|            | 25-31        | 6                | 10     | 16                       | -    | 3               | 1     | 4            | 7      | 7     |
|            | 32-38        | 7                | 9      | 16                       | -    | 2               | -     | 2            | 6      | 9     |
|            | 39-45        | 5                | 8      | 13                       | -    | -               | -     | -            | -      | -     |
|            | 46-52        | 190              | 91     | 281                      | 6    | 38              | 3     | 41           | -      | -     |
|            | None         | 74               | 140    | 214                      | 322  | 282             | 307   | 589          | 298    | 591   |
|            | Total        | 328              | 312    | 640                      | 328  | 312             | 640   | 328          | 293    | 640   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 8

## SIZE OF NATIVE AND NON-NATIVE LABOUR FORCE IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

### Lower Mackenzie Region

#### FT. McPHERSON

#### AKLAVIK

#### INUUVIK

| Age Group   | INUUVIK |            | AKLAVIK |            | FT. McPHERSON |            |
|-------------|---------|------------|---------|------------|---------------|------------|
|             | Native  | Non-Native | Native  | Non-Native | Native        | Non-Native |
| 0-14        | -       | -          | -       | -          | -             | -          |
| 15-19       | 15      | 6          | 8       | -          | 5             | -          |
| 20-24       | 33      | 55         | 11      | 2          | 15            | 3          |
| 25-29       | 17      | 40         | 11      | 5          | 18            | 2          |
| 30-34       | 14      | 23         | 12      | 5          | 9             | -          |
| 35-39       | 17      | 27         | 11      | -          | 14            | 1          |
| 40-44       | 10      | 21         | 8       | 1          | 6             | 1          |
| 45-49       | 10      | 10         | 6       | 1          | 11            | -          |
| 50-54       | 6       | 8          | 2       | 2          | 3             | -          |
| 55-59       | 1       | 7          | 2       | 1          | 4             | -          |
| 60-64       | 2       | 6          | 1       | 1          | 2             | 1          |
| 65+         | -       | 7          | 2       | 5          | -             | -          |
| TOTAL       | 125     | 210        | 74      | 23         | 87            | 8          |
|             |         | 335        |         | 97         |               | 95         |
| 0-14        | -       | 1          | -       | -          | -             | -          |
| 15-19       | 3       | 2          | 6       | -          | -             | -          |
| 20-24       | 15      | 31         | 11      | 1          | 5             | 1          |
| 25-29       | 4       | 12         | 3       | 5          | 2             | 3          |
| 30-34       | 2       | 7          | 5       | 1          | 2             | -          |
| 35-39       | 4       | 12         | 3       | -          | 1             | -          |
| 40-44       | 4       | 9          | 4       | -          | -             | 2          |
| 45-49       | -       | 8          | 1       | -          | 2             | 1          |
| 50-54       | 1       | 6          | 5       | -          | -             | 2          |
| 55-59       | 3       | 6          | -       | -          | 1             | 3          |
| 60-64       | -       | 4          | -       | -          | -             | -          |
| 65+         | 1       | 1          | -       | -          | -             | -          |
| TOTAL       | 37      | 99         | 38      | 7          | 13            | 7          |
| GRAND TOTAL | 162     | 309        | 112     | 30         | 100           | 15         |
|             |         | 471        |         | 142        |               | 115        |

MALE

FEMALE

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 13.



Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 13.

# APPENDIX 8 (cont'd)

## SIZE OF NATIVE AND NON-NATIVE LABOUR FORCE IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

| Central Mackenzie Region |              |            |               |        |              |       |       |   |   |    |     |
|--------------------------|--------------|------------|---------------|--------|--------------|-------|-------|---|---|----|-----|
| Age Group                | NORMAN WELLS |            | COLVILLE LAKE |        | FT. FRANKLIN |       | Total |   |   |    |     |
|                          | Native       | Non-Native | Total         | Native | Non-Native   | Total |       |   |   |    |     |
|                          |              |            |               |        |              |       |       |   |   |    |     |
| MALE                     |              |            |               |        |              |       |       |   |   |    |     |
| 0-14                     |              | -          | -             | -      | -            | -     | -     | - | - | -  | -   |
| 15-19                    |              | 1          | -             | -      | -            | -     | 4     | 2 | 3 | 6  | 15  |
| 20-24                    |              | 6          | 4             | -      | 4            | 12    | 9     | 2 | 2 | 11 | 7   |
| 25-29                    |              | 6          | 2             | -      | 3            | 5     | 9     | 2 | 2 | 11 | 6   |
| 30-34                    |              | 2          | 3             | -      | 3            | 5     | 4     | 1 | - | 4  | 4   |
| 35-39                    | N/Av         | 5          | 3             | -      | 3            | 5     | 4     | 2 | - | 5  | 3   |
| 40-44                    |              | 3          | 1             | -      | 1            | 4     | 3     | - | - | 3  | 1   |
| 45-49                    |              | 5          | 1             | -      | 1            | 4     | 3     | - | - | 4  | 4   |
| 50-54                    |              | -          | 1             | -      | 1            | 3     | 2     | - | - | 3  | 5   |
| 55-59                    |              | 1          | 1             | -      | 1            | 3     | 2     | - | - | 3  | 3   |
| 60-64                    |              | 2          | 1             | -      | 1            | 3     | 2     | - | - | 3  | 1   |
| 65+                      |              | -          | -             | -      | -            | -     | -     | - | - | -  | -   |
| TOTAL                    | N/Av         | 31         | 15            | -      | 15           | 58    | 14    | - | - | 72 | 1   |
|                          |              |            |               |        |              |       |       |   |   |    | 124 |
| 0-14                     |              | -          | -             | -      | -            | -     | -     | - | - | -  | -   |
| 15-19                    |              | -          | -             | -      | -            | 4     | 3     | - | - | 4  | 5   |
| 20-24                    |              | 1          | -             | -      | 1            | 2     | 2     | - | - | 2  | 2   |
| 25-29                    |              | 1          | 1             | -      | 1            | 1     | -     | - | - | 1  | 1   |
| 30-34                    |              | 1          | 1             | -      | 1            | -     | -     | - | - | -  | -   |
| 35-39                    | N/Av         | -          | -             | -      | -            | -     | -     | - | - | -  | -   |
| 40-44                    |              | 2          | -             | -      | -            | -     | -     | - | - | -  | -   |
| 45-49                    |              | 1          | -             | -      | -            | -     | -     | - | - | -  | -   |
| 50-54                    |              | -          | -             | -      | -            | 1     | -     | - | - | 1  | -   |
| 55-59                    |              | -          | -             | -      | -            | -     | -     | - | - | -  | -   |
| 60-64                    |              | -          | -             | -      | -            | -     | -     | - | - | -  | -   |
| 65+                      |              | -          | -             | -      | -            | -     | -     | - | - | -  | -   |
| TOTAL                    | N/Av         | 6          | 2             | -      | 2            | 8     | 5     | - | - | 13 | 85  |
| GRAND TOTAL              | N/Av         | 37         | 17            | -      | 17           | 66    | 19    | - | - | 85 |     |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 13.

SIZE OF NATIVE AND NON-NATIVE LABOUR FORCE IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

Central Mackenzie Region

FORT GOOD HOPE

FORT NORMAN

CENTRAL MACKENZIE REGION

| Age Group   | Native | Non-Native | Total | Native | Non-Native | Total | Native | Non-Native | Total |
|-------------|--------|------------|-------|--------|------------|-------|--------|------------|-------|
| 0-14        | -      | -          | -     | -      | -          | -     | -      | -          | -     |
| 15-19       | 3      | -          | 3     | 1      | 1          | 2     | 8      | 4          | 12    |
| 20-24       | 5      | 2          | 7     | 10     | 2          | 12    | 31     | 13         | 44    |
| 25-29       | 2      | 2          | 4     | 5      | 2          | 7     | 18     | 12         | 30    |
| 30-34       | 7      | 1          | 8     | 6      | 1          | 7     | 21     | 6          | 27    |
| 35-39       | 11     | -          | 11    | 7      | 1          | 8     | 30     | 8          | 38    |
| 40-44       | 3      | -          | 3     | 4      | 1          | 5     | 12     | 5          | 17    |
| 45-49       | 1      | -          | 1     | 1      | 1          | 2     | 7      | 6          | 13    |
| 50-54       | 4      | 1          | 5     | 1      | -          | 1     | 9      | 1          | 10    |
| 55-59       | 1      | -          | 1     | 3      | 1          | 4     | 8      | 4          | 12    |
| 60-64       | 3      | -          | 3     | 5      | 1          | 6     | 12     | 3          | 15    |
| 65+         | -      | -          | -     | 1      | -          | 1     | 1      | -          | 1     |
| TOTAL       | 40     | 6          | 46    | 44     | 11         | 55    | 157    | 62         | 219   |
| 0-14        | -      | -          | -     | -      | -          | -     | -      | -          | -     |
| 15-19       | 3      | -          | 3     | 1      | -          | 1     | 8      | -          | 8     |
| 20-24       | 2      | 3          | 5     | 1      | -          | 1     | 5      | 7          | 12    |
| 25-29       | 2      | -          | 2     | 1      | 1          | 2     | 4      | 4          | 8     |
| 30-34       | -      | -          | -     | 3      | -          | 3     | 5      | 1          | 6     |
| 35-39       | 1      | -          | 1     | -      | -          | -     | 1      | -          | 1     |
| 40-44       | 1      | -          | 1     | -      | -          | -     | 1      | 3          | 4     |
| 45-49       | -      | -          | -     | -      | -          | -     | -      | -          | -     |
| 50-54       | -      | -          | -     | 1      | 1          | 2     | 1      | 1          | 2     |
| 55-59       | -      | -          | -     | 1      | -          | 1     | 2      | -          | 2     |
| 60-64       | -      | -          | -     | -      | -          | -     | -      | -          | -     |
| 65+         | -      | -          | -     | -      | -          | -     | -      | -          | -     |
| TOTAL       | 9      | 3          | 12    | 8      | 3          | 11    | 27     | 17         | 44    |
| GRAND TOTAL | 49     | 9          | 58    | 52     | 14         | 66    | 184    | 79         | 263   |

MALE

FEMALE

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 13.

APPENDIX 8 (con'd)

SIZE OF NATIVE AND NON-NATIVE LABOUR FORCE IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

| Age Group   | Upper Mackenzie Region |            |           |   | FT. PROVIDENCE |            |            |      |
|-------------|------------------------|------------|-----------|---|----------------|------------|------------|------|
|             | FT. SIMPSON            |            | FT. LIARD |   | Native         |            | Non-Native |      |
|             | Native                 | Non-Native | Total     |   | Native         | Non-Native | Total      |      |
| MALE        |                        |            |           |   |                |            |            |      |
| 0-14        | -                      | -          | -         | - | -              | -          | -          | -    |
| 15-19       | 9                      | -          | 9         | - | 8              | -          | 8          | -    |
| 20-24       | 5                      | 3          | 8         | - | 55             | 11         | 6          | 11   |
| 25-29       | 3                      | 6          | 9         | - | 9              | 1          | 10         | 7    |
| 30-34       | 4                      | 6          | 10        | - | 11             | 1          | 12         | 6    |
| 35-39       | 5                      | 4          | 9         | - | 9              | 1          | 10         | 8    |
| 40-44       | 3                      | 4          | 7         | - | 9              | -          | 9          | 6    |
| 45-49       | 8                      | 1          | 9         | - | 1              | -          | 1          | 7    |
| 50-54       | 3                      | -          | 3         | - | 6              | -          | 6          | 1    |
| 55-59       | 5                      | -          | 5         | - | 3              | -          | 3          | 2    |
| 60-64       | 2                      | -          | 2         | - | 3              | -          | 3          | 1    |
| 65+         | 1                      | -          | 1         | - | 4              | -          | 4          | -    |
| TOTAL       | 48                     | 24         | 72        | - | 68             | 4          | 72         | 49   |
|             |                        |            |           |   |                |            |            | N/Av |
| FEMALE      |                        |            |           |   |                |            |            |      |
| 0-14        | -                      | -          | -         | - | -              | -          | -          | -    |
| 15-19       | 2                      | -          | 2         | - | -              | -          | -          | -    |
| 20-24       | 2                      | 1          | 3         | - | 2              | -          | 2          | 4    |
| 25-29       | 2                      | 2          | 4         | - | -              | -          | -          | -    |
| 30-34       | -                      | 2          | 2         | - | -              | 1          | 1          | 1    |
| 35-39       | 1                      | 2          | 3         | - | -              | -          | -          | 1    |
| 40-44       | -                      | -          | -         | - | -              | -          | -          | -    |
| 45-49       | 1                      | 2          | 3         | - | -              | -          | -          | 1    |
| 50-54       | -                      | 3          | 3         | - | -              | -          | -          | -    |
| 55-59       | -                      | 3          | 3         | - | 1              | -          | 1          | -    |
| 60-64       | 1                      | -          | 1         | - | -              | -          | -          | -    |
| 65+         | -                      | -          | -         | - | -              | -          | -          | -    |
| TOTAL       | 9                      | 15         | 24        | - | 3              | 1          | 4          | 7    |
| GRAND TOTAL | 57                     | 39         | 96        | - | 71             | 5          | 76         | 56   |
|             |                        |            |           |   |                |            |            | N/Av |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 13.

SIZE OF NATIVE AND NON-NATIVE LABOUR FORCE IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

| Upper Mackenzie Region |             |            |                  |            |               |            |       |    |  |
|------------------------|-------------|------------|------------------|------------|---------------|------------|-------|----|--|
| Age Group              | FT. WRIGLEY |            | JEAN MARIE RIVER |            | NAHANNI BUTTE |            | Total |    |  |
|                        | Native      | Non-Native | Native           | Non-Native | Native        | Non-Native |       |    |  |
| MALE                   |             |            |                  |            |               |            |       |    |  |
| 0-14                   | -           | -          | -                | -          | -             | -          | -     | -  |  |
| 15-19                  | 3           | -          | -                | -          | 2             | -          | 2     | 2  |  |
| 20-24                  | 1           | -          | 1                | -          | 3             | -          | 3     | 3  |  |
| 25-29                  | 4           | 4          | 8                | -          | 1             | -          | 1     | 1  |  |
| 30-34                  | 3           | -          | 3                | -          | -             | -          | -     | -  |  |
| 35-39                  | 1           | 1          | 2                | -          | -             | -          | -     | -  |  |
| 40-44                  | 3           | -          | 3                | -          | 1             | -          | 1     | 1  |  |
| 45-49                  | 4           | -          | 4                | -          | 1             | -          | 1     | 1  |  |
| 50-54                  | 2           | -          | 2                | -          | 3             | -          | 3     | 3  |  |
| 55-59                  | 3           | -          | 3                | -          | 1             | -          | 1     | 1  |  |
| 60-64                  | 1           | -          | 1                | -          | 2             | -          | 2     | 2  |  |
| 65+                    | -           | -          | -                | -          | -             | -          | -     | -  |  |
| TOTAL                  | 25          | 5          | 30               | -          | 14            | -          | 14    | 14 |  |
| FEMALE                 |             |            |                  |            |               |            |       |    |  |
| 0-14                   | -           | -          | -                | -          | -             | -          | -     | -  |  |
| 15-19                  | 1           | -          | 1                | -          | -             | -          | -     | -  |  |
| 20-24                  | 1           | 1          | 2                | -          | -             | -          | -     | -  |  |
| 25-29                  | -           | 1          | 1                | -          | -             | -          | -     | -  |  |
| 30-34                  | -           | -          | -                | -          | -             | -          | -     | -  |  |
| 35-39                  | -           | -          | -                | -          | -             | -          | -     | -  |  |
| 40-44                  | -           | -          | -                | -          | -             | -          | -     | -  |  |
| 45-49                  | -           | -          | -                | -          | -             | -          | -     | -  |  |
| 50-54                  | -           | -          | -                | -          | -             | -          | -     | -  |  |
| 55-59                  | -           | -          | -                | -          | -             | -          | -     | -  |  |
| 60-64                  | -           | -          | -                | -          | -             | -          | -     | -  |  |
| 65+                    | -           | -          | -                | -          | -             | -          | -     | -  |  |
| TOTAL                  | 2           | 2          | 4                | -          | -             | -          | -     | -  |  |
| GRAND TOTAL            | 27          | 7          | 34               | -          | 14            | -          | 14    | 14 |  |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 13.



# APPENDIX 8 (cont'd)

## SIZE OF NATIVE AND NON-NATIVE LABOUR FORCE IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

| Age Group   | Upper Mackenzie Region |            |           |            | UPPER MACKENZIE REGION |        |            |       |
|-------------|------------------------|------------|-----------|------------|------------------------|--------|------------|-------|
|             | TROUT LAKE             |            | HAY RIVER |            | Total                  | Native | Non-Native | Total |
|             | Native                 | Non-Native | Native    | Non-Native |                        |        |            |       |
| MALE        |                        |            |           |            |                        |        |            |       |
| 0-14        | -                      | -          | -         | -          | -                      | -      | -          | -     |
| 15-19       | 2                      | -          | 12        | 9          | 21                     | 36     | 9          | 45    |
| 20-24       | 3                      | -          | 17        | 33         | 50                     | 47     | 37         | 84    |
| 25-29       | -                      | -          | 13        | 51         | 64                     | 37     | 62         | 99    |
| 30-34       | 2                      | -          | 10        | 44         | 54                     | 36     | 51         | 87    |
| 35-39       | 1                      | -          | 17        | 35         | 52                     | 41     | 41         | 82    |
| 40-44       | 2                      | -          | 5         | 31         | 36                     | 29     | 35         | 64    |
| 45-49       | -                      | -          | 6         | 25         | 31                     | 28     | 26         | 54    |
| 50-54       | -                      | -          | 8         | 19         | 27                     | 25     | 19         | 44    |
| 55-59       | -                      | -          | 3         | 14         | 17                     | 18     | 14         | 32    |
| 60-64       | -                      | -          | 3         | 5          | 8                      | 14     | 5          | 19    |
| 65+         | -                      | -          | 1         | 1          | 2                      | 6      | 1          | 7     |
| TOTAL       | 10                     | -          | 95        | 267        | 362                    | 317    | 300        | 617   |
|             |                        |            |           |            |                        |        |            | 1     |
|             |                        |            |           |            |                        |        |            | 128   |
| FEMALE      |                        |            |           |            |                        |        |            |       |
| 0-14        | -                      | -          | -         | -          | -                      | -      | -          | -     |
| 15-19       | 1                      | -          | 3         | 10         | 13                     | 11     | 10         | 21    |
| 20-24       | 1                      | -          | 8         | 21         | 29                     | 14     | 23         | 37    |
| 25-29       | -                      | -          | 2         | 17         | 19                     | 4      | 20         | 24    |
| 30-34       | -                      | -          | -         | 17         | 17                     | 1      | 20         | 21    |
| 35-39       | -                      | -          | -         | 16         | 16                     | 2      | 18         | 20    |
| 40-44       | -                      | -          | 1         | 14         | 15                     | 1      | 14         | 15    |
| 45-49       | -                      | -          | 3         | 11         | 14                     | 5      | 13         | 18    |
| 50-54       | -                      | -          | 2         | 9          | 11                     | 2      | 12         | 14    |
| 55-59       | -                      | -          | -         | 3          | 3                      | 1      | 6          | 7     |
| 60-64       | -                      | -          | -         | 1          | 1                      | 1      | 1          | 2     |
| 65+         | -                      | -          | -         | 2          | 2                      | -      | 2          | 2     |
| TOTAL       | 2                      | -          | 19        | 121        | 140                    | 42     | 139        | 181   |
| GRAND TOTAL | 12                     | -          | 114       | 388        | 502                    | 359    | 439        | 798   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 13.

## APPENDIX 8 (cont'd)

## SIZE OF NATIVE AND NON-NATIVE LABOUR FORCE OF MACKENZIE IMPACT CORRIDOR AND REST OF N.W.T.

| Age Group   | Total Impact Corridor |            |       | Rest of Mackenzie District |            | Rest of 1/<br>N.W.T. |            | Total N.W.T. <sup>2/</sup> |            |
|-------------|-----------------------|------------|-------|----------------------------|------------|----------------------|------------|----------------------------|------------|
|             | Native                | Non-Native | Total | Native                     | Non-Native | Native               | Non-Native | Native                     | Non-Native |
| 0-14        | -                     | -          | -     | 1                          | -          | 3                    | -          | 4                          | 4          |
| 15-19       | 86                    | 19         | 105   | 71                         | 93         | 189                  | 112        | 346                        | 458        |
| 20-24       | 151                   | 110        | 261   | 104                        | 306        | 326                  | 416        | 581                        | 997        |
| 25-29       | 121                   | 121        | 242   | 75                         | 298        | 272                  | 419        | 468                        | 887        |
| 30-34       | 110                   | 85         | 195   | 58                         | 251        | 235                  | 336        | 403                        | 739        |
| 35-39       | 118                   | 77         | 195   | 79                         | 206        | 229                  | 283        | 426                        | 709        |
| 40-44       | 78                    | 63         | 141   | 72                         | 189        | 169                  | 252        | 319                        | 571        |
| 45-49       | 75                    | 43         | 118   | 40                         | 132        | 146                  | 175        | 261                        | 436        |
| 50-54       | 51                    | 30         | 81    | 45                         | 110        | 108                  | 140        | 204                        | 344        |
| 55-59       | 44                    | 26         | 70    | 38                         | 72         | 63                   | 98         | 145                        | 243        |
| 60-64       | 32                    | 16         | 48    | 15                         | 38         | 36                   | 54         | 83                         | 137        |
| 65+         | 10                    | 13         | 23    | 4                          | 25         | 14                   | 38         | 28                         | 66         |
| TOTAL       | 876                   | 603        | 1,479 | 602                        | 1,720      | 1,790                | 2,322      | 3,268                      | 5,591      |
| 0-14        | -                     | 1          | 1     | 2                          | -          | 5                    | 2          | 7                          | 1          |
| 15-19       | 34                    | 12         | 46    | 36                         | 44         | 63                   | 80         | 133                        | 56         |
| 20-24       | 53                    | 63         | 116   | 43                         | 154        | 69                   | 197        | 165                        | 217        |
| 25-29       | 20                    | 44         | 64    | 19                         | 75         | 21                   | 94         | 60                         | 119        |
| 30-34       | 15                    | 29         | 44    | 8                          | 50         | 27                   | 58         | 50                         | 79         |
| 35-39       | 14                    | 30         | 44    | 10                         | 71         | 13                   | 81         | 37                         | 101        |
| 40-44       | 11                    | 28         | 39    | 9                          | 60         | 13                   | 69         | 33                         | 88         |
| 45-49       | 14                    | 23         | 37    | 4                          | 60         | 11                   | 64         | 29                         | 83         |
| 50-54       | 10                    | 19         | 29    | 8                          | 36         | 7                    | 44         | 25                         | 55         |
| 55-59       | 9                     | 12         | 21    | 5                          | 24         | 6                    | 29         | 20                         | 36         |
| 60-64       | 2                     | 5          | 7     | 0                          | 10         | 6                    | 10         | 8                          | 15         |
| 65+         | 1                     | 3          | 4     | 0                          | 9          | 4                    | 9          | 5                          | 12         |
| TOTAL       | 183                   | 269        | 452   | 144                        | 593        | 245                  | 737        | 572                        | 862        |
| GRAND TOTAL | 1,059                 | 872        | 1,931 | 746                        | 2,313      | 2,035                | 3,059      | 3,840                      | 7,025      |

1/ Keewatin, Baffin and Arctic Coast Regions, Eskimos only, figures for non-natives not available.

2/ Non-native for Mackenzie District only.

Source: DIAND Northern Territories Manpower Surveys, Table 13.

# APPENDIX 9

## LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED, BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

### LOWER MACKENZIE REGION

#### INUVIK

| No. of Weeks | Wages and Salary |        | Hunting Trapping Fishing |        | Self-Employment |        | Without Work |        |
|--------------|------------------|--------|--------------------------|--------|-----------------|--------|--------------|--------|
|              | Male             | Female | Male                     | Female | Male            | Female | Male         | Female |
| 1-3          | 1                | -      | -                        | -      | -               | -      | -            | -      |
| 4-10         | 2                | -      | -                        | -      | -               | -      | 3            | 1      |
| 11-17        | 10               | 1      | 3                        | -      | -               | 1      | 3            | -      |
| 18-24        | 6                | 1      | 3                        | -      | 1               | -      | 4            | -      |
| 25-31        | 10               | -      | 1                        | -      | -               | -      | 12           | -      |
| 32-38        | 2                | -      | 2                        | -      | -               | -      | 3            | 1      |
| 39-45        | 5                | 2      | 2                        | -      | -               | -      | 6            | 1      |
| 46-52        | 62               | 28     | 17                       | -      | 1               | 3      | 8            | 2      |
| None         | 27               | 5      | 97                       | 37     | 123             | 33     | 86           | 32     |
| Total        | 125              | 37     | 125                      | 37     | 125             | 37     | 125          | 37     |
| Native       |                  |        |                          |        |                 |        |              |        |
| 1-3          | -                | -      | -                        | -      | -               | -      | -            | 1      |
| 4-10         | 2                | -      | -                        | -      | -               | -      | 3            | 1      |
| 11-17        | 1                | -      | -                        | -      | 2               | -      | 5            | 5      |
| 18-24        | 1                | 1      | -                        | -      | -               | -      | 2            | 2      |
| 25-31        | 1                | -      | -                        | 1      | -               | -      | 1            | 1      |
| 32-38        | 6                | 1      | -                        | -      | -               | -      | -            | -      |
| 39-45        | 3                | 3      | -                        | -      | -               | -      | 2            | 2      |
| 46-52        | 178              | 90     | -                        | -      | 13              | 1      | 3            | 3      |
| None         | 18               | 4      | 210                      | 98     | 195             | 98     | 194          | 97     |
| Total        | 210              | 99     | 210                      | 99     | 210             | 99     | 210          | 99     |
| Non-Native   |                  |        |                          |        |                 |        |              |        |
| 1-3          | -                | -      | -                        | -      | -               | -      | -            | 1      |
| 4-10         | 2                | -      | -                        | -      | -               | -      | 3            | 4      |
| 11-17        | 1                | -      | -                        | -      | 2               | -      | 5            | 5      |
| 18-24        | 1                | 1      | -                        | -      | -               | -      | 2            | 2      |
| 25-31        | 1                | -      | -                        | 1      | -               | -      | 1            | 1      |
| 32-38        | 6                | 1      | -                        | -      | -               | -      | -            | -      |
| 39-45        | 3                | 3      | -                        | -      | -               | -      | 2            | 2      |
| 46-52        | 178              | 90     | -                        | -      | 13              | 1      | 3            | 3      |
| None         | 18               | 4      | 210                      | 98     | 195             | 98     | 194          | 291    |
| Total        | 210              | 99     | 210                      | 99     | 210             | 99     | 210          | 309    |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

LOWER MACKENZIE REGION

AKLAVIK

|            | Wages and Salary |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |      |        |       |
|------------|------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|------|--------|-------|
|            | No. of Weeks     | Male | Female | Total                    | Male | Female | Total           | Male | Female | Total        | Male | Female | Total |
| Native     | 1-3              | 6    | 2      | 8                        | -    | -      | -               | 1    | -      | 1            | -    | -      | -     |
|            | 4-10             | 16   | 5      | 21                       | 7    | -      | 7               | -    | 1      | 1            | 2    | -      | 2     |
|            | 11-17            | 10   | 1      | 11                       | 6    | -      | 6               | 2    | -      | 2            | 3    | -      | 3     |
|            | 18-24            | 3    | 1      | 4                        | 9    | 1      | 10              | -    | -      | -            | 6    | 2      | 8     |
|            | 25-31            | 6    | -      | 6                        | -    | -      | -               | -    | -      | -            | 7    | -      | 7     |
|            | 32-38            | 3    | 2      | 5                        | -    | -      | -               | -    | -      | -            | 6    | 3      | 9     |
|            | 39-45            | -    | -      | -                        | 3    | -      | 3               | -    | -      | -            | 7    | 3      | 10    |
|            | 46-52            | 17   | 19     | 36                       | 7    | 1      | 8               | 1    | -      | -            | 10   | 8      | 18    |
|            | None             | 13   | 8      | 21                       | 42   | 36     | 78              | 70   | 37     | 107          | 33   | 22     | 55    |
|            | Total            | 74   | 38     | 112                      | 74   | 38     | 112             | 74   | 38     | 112          | 74   | 38     | 112   |
| Non-Native | 1-3              | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 4-10             | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 11-17            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 18-24            | -    | -      | -                        | 1    | -      | 1               | -    | -      | -            | -    | -      | -     |
|            | 25-31            | 1    | -      | 1                        | -    | -      | -               | 1    | -      | 1            | 1    | -      | 1     |
|            | 32-38            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 39-45            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 46-52            | 14   | 7      | 21                       | 3    | -      | 3               | 2    | -      | 2            | -    | -      | -     |
|            | None             | 8    | -      | 8                        | 19   | 7      | 26              | 20   | 7      | 27           | 22   | 7      | 29    |
|            | Total            | 23   | 7      | 30                       | 23   | 7      | 30              | 23   | 7      | 30           | 23   | 7      | 30    |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 9 (cont'd)

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## LOWER MACKENZIE REGION

### ARCTIC RED RIVER

|            | No. of Weeks | Wages and Salary |        | Hunting Trapping Fishing |      | Self-Employment |       | Without Work |        |       |
|------------|--------------|------------------|--------|--------------------------|------|-----------------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total                    | Male | Female          | Total | Male         | Female | Total |
| Native     | 1-3          | -                | -      | -                        | 1    | -               | -     | -            | -      | -     |
|            | 4-10         | -                | -      | -                        | 4    | -               | -     | 4            | -      | 4     |
|            | 11-17        | 3                | -      | 3                        | 1    | -               | -     | 6            | -      | 6     |
|            | 18-24        | 3                | -      | 3                        | 2    | -               | -     | 3            | -      | 3     |
|            | 25-31        | 4                | -      | 4                        | 1    | -               | -     | 2            | -      | 2     |
|            | 32-38        | 2                | -      | 2                        | -    | -               | -     | -            | -      | -     |
|            | 39-45        | 4                | -      | 4                        | -    | -               | -     | -            | -      | -     |
|            | 46-52        | 4                | 1      | 5                        | 4    | -               | -     | 1            | 2      | 3     |
|            | None         | 5                | 2      | 7                        | 12   | 3               | 15    | 25           | 9      | 34    |
|            | Total        | 25               | 3      | 28                       | 25   | 3               | 28    | 25           | 3      | 28    |
| Non-Native | 1-3          |                  |        |                          |      |                 |       |              |        |       |
|            | 4-10         |                  |        |                          |      |                 |       |              |        |       |
|            | 11-17        |                  |        |                          |      |                 |       |              |        |       |
|            | 18-24        |                  |        |                          |      |                 |       |              |        |       |
|            | 25-31        |                  |        |                          |      |                 |       |              |        |       |
|            | 32-38        |                  |        |                          |      |                 |       |              |        |       |
|            | 39-45        |                  |        |                          |      |                 |       |              |        |       |
|            | 46-52        |                  |        |                          |      |                 |       |              |        |       |
|            | None         |                  |        |                          |      |                 |       |              |        |       |
|            | Total        |                  |        |                          |      |                 |       |              |        |       |

Information not available.

Information not available.

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.



LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

LOWER MACKENZIE REGION

FORT MCPHERSON

|            | Wages and Salary |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |      |        |       |
|------------|------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|------|--------|-------|
|            | No. of Weeks     | Male | Female | Total                    | Male | Female | Total           | Male | Female | Total        | Male | Female | Total |
| Native     | 1-3              | 4    | -      | 4                        | -    | -      | 1               | 1    | -      | 1            | -    | -      | -     |
|            | 4-10             | 21   | -      | 21                       | 10   | -      | 10              | -    | -      | -            | -    | -      | -     |
|            | 11-17            | 17   | -      | 17                       | 1    | -      | 1               | -    | -      | -            | 3    | 1      | 4     |
|            | 18-24            | 15   | -      | 15                       | 8    | -      | 8               | -    | -      | -            | 14   | 2      | 16    |
|            | 25-31            | 7    | 1      | 8                        | 3    | -      | 3               | -    | -      | -            | 14   | -      | 14    |
|            | 32-38            | 4    | 1      | 5                        | 2    | -      | 2               | -    | -      | -            | 17   | -      | 17    |
|            | 39-45            | -    | 1      | 1                        | -    | -      | -               | -    | -      | -            | 19   | -      | 19    |
|            | 46-52            | 11   | 10     | 21                       | -    | -      | -               | -    | -      | -            | 5    | -      | 5     |
|            | None             | 8    | -      | 8                        | 63   | 13     | 76              | 86   | 13     | 99           | 15   | 10     | 25    |
|            | Total            | 87   | 13     | 100                      | 87   | 13     | 100             | 87   | 13     | 100          | 87   | 13     | 100   |
| Non-Native | 1-3              | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 4-10             | -    | 1      | 1                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 11-17            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 18-24            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 25-31            | 1    | -      | 1                        | -    | -      | -               | -    | -      | -            | 1    | -      | 1     |
|            | 32-38            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 39-45            | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 46-52            | 7    | 6      | 13                       | -    | -      | -               | -    | -      | -            | -    | 1      | 1     |
|            | None             | -    | -      | -                        | 8    | 7      | 15              | 8    | 7      | 15           | 7    | 6      | 13    |
|            | Total            | 8    | 7      | 15                       | 8    | 7      | 15              | 8    | 7      | 15           | 8    | 7      | 15    |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 9 (cont'd)

## LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED, BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

### LOWER MACKENZIE REGION

#### TUKTOYAKTUK

| No. of Weeks               | Wages and Salary |        | Hunting Trapping Fishing |        | Self-Employment |        | Without Work |        |
|----------------------------|------------------|--------|--------------------------|--------|-----------------|--------|--------------|--------|
|                            | Male             | Female | Male                     | Female | Male            | Female | Male         | Female |
| 1-3                        | 3                | -      | -                        | -      | -               | -      | -            | -      |
| 4-10                       | 8                | -      | 3                        | -      | -               | -      | 1            | -      |
| 11-17                      | 23               | 2      | 5                        | -      | -               | -      | 6            | -      |
| 18-24                      | 16               | -      | 6                        | -      | -               | -      | 7            | -      |
| 25-31                      | 12               | -      | -                        | -      | -               | -      | 17           | -      |
| 32-38                      | 6                | -      | -                        | -      | -               | -      | 18           | -      |
| 39-45                      | -                | -      | -                        | -      | -               | -      | 15           | -      |
| 46-52                      | 17               | 18     | 3                        | -      | 1               | -      | 6            | 3      |
| None                       | 6                | 3      | 74                       | 23     | 90              | 23     | 23           | 18     |
| Total                      | 91               | 23     | 91                       | 23     | 91              | 23     | 91           | 23     |
| Information not available. |                  |        |                          |        |                 |        |              |        |
| 1-3                        |                  |        |                          |        |                 |        |              |        |
| 4-10                       |                  |        |                          |        |                 |        |              |        |
| 11-17                      |                  |        |                          |        |                 |        |              |        |
| 18-24                      |                  |        |                          |        |                 |        |              |        |
| 25-31                      |                  |        |                          |        |                 |        |              |        |
| 32-38                      |                  |        |                          |        |                 |        |              |        |
| 39-45                      |                  |        |                          |        |                 |        |              |        |
| 46-52                      |                  |        |                          |        |                 |        |              |        |
| None                       |                  |        |                          |        |                 |        |              |        |
| Total                      |                  |        |                          |        |                 |        |              |        |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.  
TOTAL LOWER MACKENZIE REGION

|            | Wages and Salary |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |      |        |       |
|------------|------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|------|--------|-------|
|            | No. of Weeks     | Male | Female | Total                    | Male | Female | Total           | Male | Female | Total        | Male | Female | Total |
| Native     | 1-3              | 14   | 2      | 16                       | 1    | -      | 1               | 2    | -      | -            | 2    | -      | -     |
|            | 4-10             | 47   | 5      | 52                       | 24   | -      | 24              | -    | 1      | 1            | 10   | 1      | 11    |
|            | 11-17            | 63   | 4      | 67                       | 16   | -      | 16              | 2    | 1      | 3            | 21   | 1      | 22    |
|            | 18-24            | 43   | 2      | 45                       | 28   | 1      | 29              | 1    | -      | 1            | 34   | 4      | 38    |
|            | 25-31            | 39   | 1      | 40                       | 5    | -      | 5               | -    | -      | -            | 52   | -      | 52    |
|            | 32-38            | 17   | 3      | 20                       | 4    | -      | 4               | -    | -      | -            | 44   | 4      | 48    |
|            | 39-45            | 9    | 3      | 12                       | 5    | -      | 5               | -    | -      | -            | 45   | 6      | 51    |
|            | 46-52            | 111  | 76     | 187                      | 31   | 1      | 32              | 3    | 3      | 6            | 30   | 15     | 45    |
|            | None             | 59   | 18     | 77                       | 288  | 112    | 400             | 394  | 109    | 503          | 166  | 83     | 249   |
|            | Total            | 402  | 114    | 516                      | 402  | 114    | 516             | 402  | 114    | 516          | 402  | 114    | 516   |
| Non-Native | 1-3              | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | 1      | 1     |
|            | 4-10             | 2    | 1      | 3                        | -    | -      | -               | -    | -      | -            | 3    | 1      | 4     |
|            | 11-17            | 1    | -      | 1                        | -    | -      | -               | 2    | -      | 2            | 5    | -      | 5     |
|            | 18-24            | 1    | 1      | 2                        | 1    | -      | 1               | -    | -      | -            | 2    | -      | 2     |
|            | 25-31            | 3    | -      | 3                        | -    | 1      | 1               | 1    | -      | 1            | 3    | -      | 3     |
|            | 32-38            | 6    | 1      | 7                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 39-45            | 3    | 3      | 6                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 46-52            | 199  | 103    | 302                      | 3    | -      | 3               | 15   | 1      | 16           | 3    | 1      | 4     |
|            | None             | 26   | 4      | 30                       | 237  | 112    | 349             | 223  | 112    | 335          | 223  | 110    | 333   |
|            | Total            | 241  | 113    | 354                      | 241  | 113    | 354             | 241  | 113    | 354          | 241  | 113    | 354   |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

## APPENDIX 9 (cont'd)

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## CENTRAL MACKENZIE REGION

## NORMAN WELLS

|            | Wages and Salary          |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |      |        |       |
|------------|---------------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|------|--------|-------|
|            | No. of Weeks              | Male | Female | Total                    | Male | Female | Total           | Male | Female | Total        | Male | Female | Total |
| Native     | Information not available |      |        |                          |      |        |                 |      |        |              |      |        |       |
|            | 1-3                       |      |        |                          |      |        |                 |      |        |              |      |        |       |
|            | 4-10                      |      |        |                          |      |        |                 |      |        |              |      |        |       |
|            | 11-17                     |      |        |                          |      |        |                 |      |        |              |      |        |       |
|            | 18-24                     |      |        |                          |      |        |                 |      |        |              |      |        |       |
|            | 25-31                     |      |        |                          |      |        |                 |      |        |              |      |        |       |
|            | 32-38                     |      |        |                          |      |        |                 |      |        |              |      |        |       |
|            | 39-45                     |      |        |                          |      |        |                 |      |        |              |      |        |       |
|            | 46-52                     |      |        |                          |      |        |                 |      |        |              |      |        |       |
| None       |                           |      |        |                          |      |        |                 |      |        |              |      |        |       |
| Total      |                           |      |        |                          |      |        |                 |      |        |              |      |        |       |
| Non-Native | 1-3                       | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 4-10                      | -    | -      | -                        | -    | -      | -               | 1    | -      | -            | 1    | -      | -     |
|            | 11-17                     | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 18-24                     | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 25-31                     | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 32-38                     | -    | -      | -                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 39-45                     | 1    | -      | 1                        | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 46-52                     | 30   | 6      | 36                       | -    | -      | -               | -    | 30     | 6            | 36   | 30     | 6     |
|            | None                      | -    | -      | -                        | 31   | 6      | 37              | -    | 31     | 6            | 37   | 31     | 6     |
|            | Total                     | 31   | 6      | 37                       | 31   | 6      | 37              | 31   | 31     | 6            | 37   | 31     | 6     |

Information not available

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

CENTRAL MACKENZIE REGION

COLVILLE LAKE

| No. of Weeks              | Wages and Salary |        | Hunting Trapping Fishing |        | Self-Employment |        | Without Work |        |
|---------------------------|------------------|--------|--------------------------|--------|-----------------|--------|--------------|--------|
|                           | Male             | Female | Male                     | Female | Male            | Female | Male         | Female |
| 1-3                       | 5                | -      | -                        | -      | -               | -      | -            | -      |
| 4-10                      | 7                | -      | 1                        | -      | -               | -      | -            | -      |
| 11-17                     | 1                | -      | 3                        | -      | -               | -      | -            | -      |
| 18-24                     | -                | -      | 3                        | -      | -               | -      | -            | -      |
| 25-31                     | 1                | -      | 1                        | -      | -               | -      | 2            | 2      |
| 32-38                     | -                | -      | -                        | -      | -               | -      | 5            | 5      |
| 39-45                     | -                | -      | -                        | -      | -               | -      | 2            | 2      |
| 46-52                     | -                | -      | -                        | -      | -               | -      | 2            | 2      |
| None                      | 1                | 2      | 7                        | 2      | 15              | 2      | 4            | 2      |
| Total                     | 15               | 2      | 15                       | 2      | 15              | 2      | 17           | 2      |
| Information not available |                  |        |                          |        |                 |        |              |        |
| 1-3                       |                  |        |                          |        |                 |        |              |        |
| 4-10                      |                  |        |                          |        |                 |        |              |        |
| 11-18                     |                  |        |                          |        |                 |        |              |        |
| 18-24                     |                  |        |                          |        |                 |        |              |        |
| 25-31                     |                  |        |                          |        |                 |        |              |        |
| 32-38                     |                  |        |                          |        |                 |        |              |        |
| 39-45                     |                  |        |                          |        |                 |        |              |        |
| 46-52                     |                  |        |                          |        |                 |        |              |        |
| None                      |                  |        |                          |        |                 |        |              |        |
| Total                     |                  |        |                          |        |                 |        |              |        |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.



# APPENDIX 9 (cont'd)

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## CENTRAL MACKENZIE REGION

### FORT FRANKLIN

|            | No. of Weeks | Wages and Salary |        | Hunting Trapping Fishing |      | Self-Employment |       | Without Work |        |       |
|------------|--------------|------------------|--------|--------------------------|------|-----------------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total                    | Male | Female          | Total | Male         | Female | Total |
| Native     | 1-3          | 4                | -      | 4                        | -    | -               | -     | -            | -      | -     |
|            | 4-10         | 13               | 1      | 14                       | 1    | 1               | -     | 4            | 1      | 5     |
|            | 11-17        | 4                | -      | 4                        | 22   | 1               | 23    | 1            | 1      | 8     |
|            | 18-24        | 5                | -      | 5                        | 13   | -               | 13    | 7            | 1      | 8     |
|            | 25-31        | 5                | -      | 5                        | 2    | -               | 2     | 6            | 1      | 7     |
|            | 32-38        | -                | 1      | 1                        | 3    | -               | 3     | 13           | -      | 13    |
|            | 39-45        | 1                | 2      | 3                        | 1    | -               | 1     | 2            | -      | 2     |
|            | 46-52        | 12               | 4      | 16                       | -    | -               | -     | 3            | -      | 3     |
|            | None         | 14               | -      | 14                       | 16   | 7               | 23    | 56           | 8      | 64    |
|            | Total        | 58               | 8      | 66                       | 58   | 8               | 66    | 58           | 8      | 66    |
| Non-Native | 1-3          | -                | -      | -                        | -    | -               | -     | -            | -      | -     |
|            | 4-10         | -                | -      | -                        | -    | -               | -     | -            | -      | -     |
|            | 11-17        | -                | -      | -                        | -    | -               | -     | -            | -      | -     |
|            | 18-24        | -                | -      | -                        | -    | -               | -     | -            | -      | -     |
|            | 25-31        | 1                | 1      | 2                        | 1    | -               | 1     | -            | -      | -     |
|            | 32-38        | -                | -      | -                        | -    | -               | -     | -            | -      | -     |
|            | 39-45        | 1                | 1      | 2                        | -    | -               | -     | -            | -      | -     |
|            | 46-52        | 11               | 3      | 14                       | -    | -               | -     | -            | -      | -     |
|            | None         | 1                | -      | 1                        | 13   | 5               | 18    | 14           | 5      | 19    |
|            | Total        | 14               | 5      | 19                       | 14   | 5               | 19    | 14           | 5      | 19    |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

CENTRAL MACKENZIE REGION

FORT GOOD HOPE

|            | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native     | 1-3          | 2                | -      | 2     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | 8                | 1      | 9     | 8                        | -      | 8     | -               | -      | -     | 1            | -      | 1     |
|            | 11-17        | 9                | 1      | 10    | 5                        | -      | 5     | -               | -      | -     | 2            | -      | 2     |
|            | 18-24        | 6                | 1      | 7     | 3                        | -      | 3     | -               | -      | -     | 3            | 1      | 4     |
|            | 25-31        | 2                | -      | 2     | 1                        | -      | 1     | -               | -      | -     | 5            | -      | 5     |
|            | 32-38        | -                | 1      | 1     | -                        | -      | -     | -               | -      | -     | 10           | 1      | 11    |
|            | 39-45        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | 9            | 1      | 10    |
|            | 46-52        | 8                | 3      | -     | -                        | -      | -     | -               | -      | -     | 2            | 3      | 5     |
|            | None         | 5                | 2      | 7     | 23                       | 9      | 32    | 40              | 9      | 49    | 8            | 3      | 11    |
|            | Total        | 40               | 9      | 49    | 40                       | 9      | 49    | 40              | 9      | 49    | 40           | 9      | 49    |
| Non-Native | 1-3          | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 11-17        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 18-24        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 25-31        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 32-38        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 39-45        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 46-52        | 6                | 3      | 9     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | None         | -                | -      | -     | 6                        | 3      | 9     | 6               | 3      | 9     | 6            | 3      | 9     |
|            | Total        | 6                | 3      | 9     | 6                        | 3      | 9     | 6               | 3      | 9     | 6            | 3      | 9     |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 9 (cont'd)

## LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED, BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

### CENTRAL MACKENZIE REGION

#### FORT NORMAN

| No. of Weeks | Wages and Salary |        | Hunting Trapping Fishing |        | Self-Employment |        | Without Work |        |
|--------------|------------------|--------|--------------------------|--------|-----------------|--------|--------------|--------|
|              | Male             | Female | Male                     | Female | Male            | Female | Male         | Female |
| 1-3          | -                | -      | -                        | -      | -               | -      | -            | -      |
| 4-10         | 3                | 1      | 4                        | -      | -               | -      | 3            | 1      |
| 11-17        | 5                | -      | 16                       | -      | -               | 1      | 6            | -      |
| 18-24        | 4                | -      | 4                        | -      | -               | -      | 4            | 1      |
| 25-31        | 1                | -      | 2                        | -      | -               | 1      | 2            | -      |
| 32-38        | 1                | 1      | -                        | -      | -               | -      | 5            | -      |
| 39-45        | 4                | -      | -                        | -      | -               | -      | 7            | 1      |
| 46-52        | 10               | 4      | -                        | -      | -               | -      | 4            | 1      |
| None         | 16               | 2      | 18                       | 8      | 44              | 6      | 13           | 4      |
| Total        | 44               | 8      | 44                       | 8      | 44              | 8      | 44           | 8      |
| Native       |                  |        |                          |        |                 |        |              |        |
| 1-3          | -                | -      | -                        | -      | -               | -      | -            | -      |
| 4-10         | -                | -      | -                        | -      | -               | -      | -            | -      |
| 11-17        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 18-24        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 25-31        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 32-38        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 39-45        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 46-52        | 11               | 3      | -                        | -      | -               | -      | -            | -      |
| None         | -                | -      | 11                       | 3      | 11              | 3      | 11           | 3      |
| Total        | 11               | 3      | 11                       | 3      | 11              | 3      | 11           | 3      |
| Non-Native   |                  |        |                          |        |                 |        |              |        |
| 1-3          | -                | -      | -                        | -      | -               | -      | -            | -      |
| 4-10         | -                | -      | -                        | -      | -               | -      | -            | -      |
| 11-17        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 18-24        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 25-31        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 32-38        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 39-45        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 46-52        | 11               | 3      | 14                       | -      | -               | -      | 11           | 3      |
| None         | -                | -      | 11                       | 3      | 11              | 3      | 11           | 3      |
| Total        | 11               | 3      | 14                       | 3      | 11              | 3      | 11           | 3      |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

TOTAL CENTRAL MACKENZIE REGION

|            | <u>Wages and Salary</u> |      |        | <u>Hunting Trapping Fishing</u> |      |        | <u>Self-Employment</u> |      |        | <u>Without Work</u> |        |       |
|------------|-------------------------|------|--------|---------------------------------|------|--------|------------------------|------|--------|---------------------|--------|-------|
|            | No. of Weeks            | Male | Female | Total                           | Male | Female | Total                  | Male | Female | Male                | Female | Total |
| Native     | 1-3                     | 11   | -      | 11                              | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 4-10                    | 31   | 3      | 34                              | 14   | -      | 14                     | 1    | -      | 8                   | 2      | 10    |
|            | 11-17                   | 19   | 1      | 20                              | 46   | 1      | 47                     | 1    | 1      | 15                  | 1      | 16    |
|            | 18-24                   | 15   | 1      | 16                              | 23   | -      | 23                     | -    | -      | 16                  | 3      | 19    |
|            | 25-31                   | 9    | -      | 9                               | 6    | -      | 6                      | -    | -      | 18                  | 1      | 19    |
|            | 32-38                   | 1    | 3      | 4                               | 3    | -      | 3                      | -    | 1      | 30                  | 1      | 31    |
|            | 39-45                   | 5    | 2      | 7                               | 1    | -      | 1                      | -    | -      | 20                  | 2      | 22    |
|            | 46-52                   | 30   | 11     | 41                              | -    | -      | -                      | -    | -      | 13                  | 6      | 19    |
|            | None                    | 36   | 6      | 42                              | 64   | 26     | 90                     | 155  | 25     | 37                  | 11     | 48    |
|            | Total                   | 157  | 27     | 184                             | 157  | 27     | 184                    | 157  | 27     | 157                 | 27     | 184   |
| Non-Native | 1-3                     | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 4-10                    | -    | -      | -                               | -    | -      | -                      | 1    | -      | 1                   | -      | 1     |
|            | 11-17                   | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 18-24                   | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 25-31                   | 1    | 1      | 2                               | 1    | -      | 1                      | -    | -      | -                   | -      | -     |
|            | 32-38                   | -    | -      | -                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 39-45                   | 2    | 1      | 3                               | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | 46-52                   | 58   | 15     | 73                              | -    | -      | -                      | -    | -      | -                   | -      | -     |
|            | None                    | 1    | -      | 1                               | 61   | 17     | 78                     | 61   | 17     | 61                  | 17     | 78    |
|            | Total                   | 62   | 17     | 79                              | 62   | 17     | 79                     | 62   | 17     | 62                  | 17     | 79    |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 9 (cont'd)

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## UPPER MACKENZIE REGION

### FORT SIMPSON

| No. of Weeks | Wages and Salary |        | Hunting Trapping Fishing |        | Self-Employment |        | Without Work |        |
|--------------|------------------|--------|--------------------------|--------|-----------------|--------|--------------|--------|
|              | Male             | Female | Male                     | Female | Male            | Female | Male         | Female |
| 1-3          | 4                | 1      | 1                        | -      | -               | -      | -            | -      |
| 4-10         | 5                | -      | 1                        | -      | -               | -      | 1            | -      |
| 11-17        | 3                | -      | 1                        | -      | -               | -      | 1            | -      |
| 18-24        | 3                | -      | -                        | -      | -               | -      | 1            | -      |
| 25-31        | 1                | -      | -                        | -      | -               | -      | 6            | -      |
| 32-38        | 1                | -      | -                        | -      | -               | -      | 2            | -      |
| 39-45        | 3                | -      | -                        | -      | -               | -      | 2            | -      |
| 46-52        | 19               | 7      | 2                        | -      | -               | -      | 13           | 2      |
| None         | 9                | 1      | 43                       | 9      | 48              | 9      | 22           | 7      |
| Total        | 48               | 9      | 48                       | 9      | 48              | 9      | 48           | 9      |
| Native       |                  |        |                          |        |                 |        |              |        |
| 1-3          | -                | -      | -                        | -      | -               | -      | -            | -      |
| 4-10         | -                | -      | -                        | -      | -               | -      | -            | -      |
| 11-17        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 18-24        | -                | -      | -                        | -      | -               | -      | 1            | -      |
| 25-31        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 32-38        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 39-45        | 1                | -      | -                        | -      | -               | -      | -            | -      |
| 46-52        | 22               | 15     | -                        | -      | -               | -      | -            | -      |
| None         | 1                | -      | 24                       | 15     | 23              | 15     | 23           | 15     |
| Total        | 24               | 15     | 24                       | 15     | 24              | 15     | 24           | 15     |
| Non-Native   |                  |        |                          |        |                 |        |              |        |
| 1-3          | -                | -      | -                        | -      | -               | -      | -            | -      |
| 4-10         | -                | -      | -                        | -      | -               | -      | -            | -      |
| 11-17        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 18-24        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 25-31        | -                | -      | -                        | -      | 1               | -      | -            | -      |
| 32-38        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 39-45        | -                | -      | -                        | -      | -               | -      | -            | -      |
| 46-52        | 22               | 15     | -                        | -      | -               | -      | -            | -      |
| None         | 1                | -      | 24                       | 15     | 23              | 15     | 23           | 15     |
| Total        | 24               | 15     | 24                       | 15     | 24              | 15     | 24           | 15     |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.



LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

UPPER MACKENZIE REGION

FORT LIARD

|            | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|            |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native     | 1-3          | 1                | -      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | 23               | -      | 23    | -                        | -      | -     | -               | -      | -     | 1            | -      | 1     |
|            | 11-17        | 5                | -      | 5     | 1                        | -      | 1     | -               | -      | -     | -            | -      | -     |
|            | 18-24        | 1                | -      | 1     | 2                        | -      | 2     | -               | -      | -     | -            | -      | -     |
|            | 25-31        | -                | -      | -     | 1                        | -      | 1     | -               | -      | -     | -            | -      | -     |
|            | 32-38        | 2                | -      | 2     | -                        | -      | -     | -               | -      | -     | 1            | -      | 1     |
|            | 39-45        | -                | -      | -     | 4                        | -      | 4     | -               | -      | -     | 1            | -      | 1     |
|            | 46-52        | 6                | 2      | 8     | 52                       | -      | 52    | 1               | 1      | 2     | 1            | -      | 1     |
|            | None         | 30               | 1      | 31    | 8                        | 3      | 11    | 67              | 2      | 69    | 65           | 3      | 68    |
|            | Total        | 68               | 3      | 71    | 68                       | 3      | 71    | 68              | 3      | 71    | 68           | 3      | 71    |
| Non-Native | 1-3          | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 4-10         | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 11-17        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 18-24        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 25-31        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 32-38        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 39-45        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | 46-52        | 4                | 1      | 5     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|            | None         | -                | -      | -     | 4                        | 1      | 5     | 4               | 1      | 5     | 4            | 1      | 5     |
|            | Total        | 4                | 1      | 5     | 4                        | 1      | 5     | 4               | 1      | 5     | 4            | 1      | 5     |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 9 (cont'd)

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## UPPER MACKENZIE REGION

### FORT PROVIDENCE

|                           | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|---------------------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|                           |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native                    | 1-3          | 3                | 1      | 4     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|                           | 4-10         | 10               | -      | 10    | -                        | -      | -     | -               | -      | -     | 2            | -      | 2     |
|                           | 11-17        | 6                | 1      | 7     | -                        | -      | -     | 2               | -      | 2     | 3            | 1      | 4     |
|                           | 18-24        | 3                | -      | 3     | 15                       | -      | 15    | -               | -      | -     | 12           | -      | 12    |
|                           | 25-31        | 2                | -      | 2     | 4                        | -      | 4     | -               | -      | -     | 9            | 1      | 10    |
|                           | 32-38        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | 6            | -      | 6     |
|                           | 39-45        | 1                | 1      | 2     | -                        | -      | -     | -               | -      | -     | 2            | -      | 2     |
|                           | 46-52        | 11               | 3      | 14    | 2                        | -      | 2     | -               | -      | -     | 3            | 2      | 5     |
|                           | None         | 13               | 1      | 14    | 28                       | 7      | 35    | 47              | 7      | 54    | 12           | 3      | 15    |
|                           | Total        | 49               | 7      | 56    | 49                       | 7      | 56    | 49              | 7      | 56    | 49           | 7      | 56    |
| Non-Native                | 1-3          |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 4-10         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 11-17        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 18-24        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 25-31        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 32-38        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 39-45        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 46-52        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | None         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | Total        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
| Information not available |              |                  |        |       |                          |        |       |                 |        |       |              |        |       |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

UPPER MACKENZIE REGION

FORT WRIGLEY

|            | No. of Weeks | <u>Wages and Salary</u> |        |       | <u>Hunting Trapping Fishing</u> |        |       | <u>Self-Employment</u> |        |       | <u>Without Work</u> |        |       |
|------------|--------------|-------------------------|--------|-------|---------------------------------|--------|-------|------------------------|--------|-------|---------------------|--------|-------|
|            |              | Male                    | Female | Total | Male                            | Female | Total | Male                   | Female | Total | Male                | Female | Total |
| Native     | 1-3          | 9                       | -      | 9     | -                               | -      | -     | -                      | -      | -     | -                   | -      | -     |
|            | 4-10         | 4                       | -      | 4     | 2                               | -      | 2     | -                      | -      | -     | -                   | -      | -     |
|            | 11-17        | 2                       | -      | 2     | -                               | -      | -     | -                      | -      | -     | 2                   | -      | 2     |
|            | 18-24        | 1                       | -      | 1     | 2                               | -      | 2     | -                      | -      | -     | 3                   | -      | 3     |
|            | 25-31        | 1                       | -      | 1     | -                               | -      | -     | -                      | -      | -     | 3                   | -      | 3     |
|            | 32-38        | -                       | -      | -     | -                               | -      | -     | -                      | -      | -     | -                   | -      | -     |
|            | 39-45        | 1                       | -      | 1     | -                               | -      | -     | -                      | -      | -     | 1                   | -      | 1     |
|            | 46-52        | 2                       | -      | 2     | -                               | -      | -     | -                      | -      | -     | 11                  | 1      | 12    |
|            | None         | 5                       | 2      | 7     | 21                              | 2      | 23    | 25                     | 2      | 27    | 5                   | 1      | 6     |
|            | Total        | 25                      | 2      | 27    | 25                              | 2      | 27    | 25                     | 2      | 27    | 25                  | 2      | 27    |
| Non-Native | 1-3          | -                       | -      | -     | -                               | -      | -     | -                      | -      | -     | -                   | -      | -     |
|            | 4-10         | -                       | -      | -     | -                               | -      | -     | -                      | -      | -     | -                   | -      | -     |
|            | 11-17        | -                       | -      | -     | -                               | -      | -     | -                      | -      | -     | -                   | -      | -     |
|            | 18-24        | -                       | -      | -     | -                               | -      | -     | -                      | -      | -     | -                   | -      | -     |
|            | 25-31        | -                       | -      | -     | -                               | -      | -     | -                      | -      | -     | -                   | -      | -     |
|            | 32-38        | -                       | -      | -     | -                               | -      | -     | -                      | -      | -     | -                   | -      | -     |
|            | 39-45        | -                       | 1      | 1     | -                               | -      | -     | -                      | -      | -     | -                   | -      | -     |
|            | 46-52        | 5                       | 1      | 6     | -                               | -      | -     | -                      | -      | -     | -                   | -      | -     |
|            | None         | -                       | -      | -     | 5                               | 2      | 7     | 5                      | 2      | 7     | 5                   | 2      | 7     |
|            | Total        | 5                       | 2      | 7     | 5                               | 2      | 7     | 5                      | 2      | 7     | 5                   | 2      | 7     |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

APPENDIX 9 (cont'd)

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

UPPER MACKENZIE REGION

JEAN MARIE RIVER

|                              | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|------------------------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|                              |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native                       | 1-3          | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|                              | 4-10         | 5                | -      | 5     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|                              | 11-17        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | 2            | -      | 2     |
|                              | 18-24        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|                              | 25-31        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|                              | 32-38        | 1                | -      | 1     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|                              | 39-45        | -                | -      | -     | 4                        | -      | 4     | -               | -      | -     | -            | -      | -     |
|                              | 46-52        | 1                | -      | 1     | 1                        | -      | 1     | -               | -      | -     | -            | -      | -     |
|                              | None         | 1                | -      | 1     | 3                        | -      | 3     | 8               | -      | 8     | 6            | -      | 6     |
|                              | Total        | 8                | -      | 8     | 8                        | -      | 8     | 8               | -      | 8     | 8            | -      | 8     |
| Non-Native                   | 1-3          |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                              | 4-10         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                              | 11-17        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                              | 18-24        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                              | 25-31        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                              | 32-38        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                              | 39-45        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                              | 46-52        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                              | None         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                              | Total        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
| No non-natives in settlement |              |                  |        |       |                          |        |       |                 |        |       |              |        |       |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

UPPER MACKENZIE REGION

NAHANNI BUTTE

|                           | No. of Weeks | Wages and Salary |        |       | Hunting Trapping Fishing |        |       | Self-Employment |        |       | Without Work |        |       |
|---------------------------|--------------|------------------|--------|-------|--------------------------|--------|-------|-----------------|--------|-------|--------------|--------|-------|
|                           |              | Male             | Female | Total | Male                     | Female | Total | Male            | Female | Total | Male         | Female | Total |
| Native                    | 1-3          | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|                           | 4-10         | 3                | -      | 3     | -                        | -      | -     | -               | -      | -     | 2            | -      | 2     |
|                           | 11-17        | 5                | -      | 5     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|                           | 18-24        | -                | -      | -     | 1                        | -      | 1     | -               | -      | -     | 1            | -      | 1     |
|                           | 25-31        | -                | -      | -     | -                        | -      | -     | -               | -      | -     | -            | -      | -     |
|                           | 32-38        | -                | -      | -     | 1                        | -      | 1     | -               | -      | 2     | -            | -      | -     |
|                           | 39-45        | -                | -      | -     | 3                        | -      | 3     | 1               | -      | 1     | -            | -      | -     |
|                           | 46-52        | -                | -      | -     | 6                        | -      | 6     | -               | -      | -     | -            | -      | -     |
|                           | None         | 6                | -      | 6     | 3                        | -      | 3     | 11              | -      | 11    | 11           | -      | 11    |
|                           | Total        | 14               | -      | 14    | 14                       | -      | 14    | 14              | -      | 14    | 14           | -      | 14    |
| Non-Native                | 1-3          |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 4-10         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 11-17        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 18-24        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 25-31        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 32-38        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 39-45        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | 46-52        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | None         |                  |        |       |                          |        |       |                 |        |       |              |        |       |
|                           | Total        |                  |        |       |                          |        |       |                 |        |       |              |        |       |
| Information not available |              |                  |        |       |                          |        |       |                 |        |       |              |        |       |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.



# APPENDIX 9 (cont'd)

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## UPPER MACKENZIE REGION

### TROUT LAKE

| No. of Weeks                 | Wages and Salary |        | Hunting Trapping Fishing |      | Self-Employment |       | Without Work |        |
|------------------------------|------------------|--------|--------------------------|------|-----------------|-------|--------------|--------|
|                              | Male             | Female | Total                    | Male | Female          | Total | Male         | Female |
| 1-3                          | -                | -      | -                        | -    | -               | -     | -            | -      |
| 4-10                         | -                | -      | -                        | -    | -               | -     | -            | -      |
| 11-17                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| 18-24                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| 25-31                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| 32-38                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| 39-45                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| 46-52                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| None                         | 10               | 2      | 12                       | 10   | 2               | 12    | 10           | 2      |
| Total                        | 10               | 2      | 12                       | 10   | 2               | 12    | 10           | 2      |
| No non-natives in settlement |                  |        |                          |      |                 |       |              |        |
| 1-3                          | -                | -      | -                        | -    | -               | -     | -            | -      |
| 4-10                         | -                | -      | -                        | -    | -               | -     | -            | -      |
| 11-17                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| 18-24                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| 25-31                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| 32-38                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| 39-45                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| 46-52                        | -                | -      | -                        | -    | -               | -     | -            | -      |
| None                         | 10               | 2      | 12                       | 10   | 2               | 12    | 10           | 2      |
| Total                        | 10               | 2      | 12                       | 10   | 2               | 12    | 10           | 2      |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

UPPER MACKENZIE REGION

HAY RIVER

|            | Wages and Salary |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |      |        |       |
|------------|------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|------|--------|-------|
|            | No. of Weeks     | Male | Female | Total                    | Male | Female | Total           | Male | Female | Total        | Male | Female | Total |
| Native     | 1-3              | 2    | -      | 2                        | -    | -      | -               | -    | -      | -            | -    | 1      | 1     |
|            | 4-10             | 8    | 2      | 10                       | 4    | -      | 4               | 2    | -      | 2            | 2    | -      | 2     |
|            | 11-17            | 10   | -      | 10                       | 1    | -      | 1               | -    | -      | -            | 6    | 1      | 7     |
|            | 18-24            | 7    | -      | 7                        | -    | -      | -               | -    | -      | -            | 8    | -      | 8     |
|            | 25-31            | 6    | -      | 6                        | 2    | -      | 2               | -    | -      | -            | 5    | -      | 5     |
|            | 32-38            | 7    | -      | 7                        | 1    | -      | 1               | -    | -      | -            | 11   | -      | 11    |
|            | 39-45            | 3    | 2      | 5                        | -    | -      | -               | -    | -      | -            | 6    | -      | 6     |
|            | 46-52            | 30   | 15     | 45                       | 10   | -      | 10              | 1    | -      | 1            | 15   | 2      | 17    |
|            | None             | 22   | -      | 22                       | 77   | 19     | 96              | 92   | 19     | 111          | 42   | 15     | 57    |
|            | Total            | 95   | 19     | 114                      | 95   | 19     | 114             | 95   | 19     | 114          | 95   | 19     | 114   |
| Non-Native | 1-3              | -    | 1      | 1                        | -    | -      | -               | -    | -      | -            | 1    | -      | 1     |
|            | 4-10             | 1    | -      | 1                        | -    | -      | -               | 1    | -      | 1            | 4    | 7      | 11    |
|            | 11-17            | 4    | 2      | 6                        | -    | -      | -               | 1    | -      | 1            | 5    | 4      | 9     |
|            | 18-24            | 12   | 2      | 14                       | -    | -      | -               | -    | -      | -            | 3    | 4      | 7     |
|            | 25-31            | 5    | 4      | 9                        | -    | -      | -               | 3    | 1      | 4            | 7    | -      | 7     |
|            | 32-38            | 5    | 4      | 9                        | -    | -      | -               | 2    | -      | 2            | 6    | 3      | 9     |
|            | 39-45            | 5    | 7      | 12                       | -    | -      | -               | -    | -      | -            | -    | -      | -     |
|            | 46-52            | 190  | 91     | 281                      | 6    | -      | 6               | 38   | 3      | 41           | -    | -      | -     |
|            | None             | 45   | 10     | 55                       | 261  | 121    | 382             | 222  | 117    | 339          | 241  | 103    | 344   |
|            | Total            | 267  | 121    | 388                      | 267  | 121    | 388             | 267  | 121    | 388          | 267  | 121    | 388   |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

## APPENDIX 9 (cont'd)

LABOUR FORCE ENGAGED IN SPECIFIED ACTIVITIES BY NUMBER OF WEEKS ENGAGED,  
BY ETHNIC ORIGIN AND SEX IN THE MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

TOTAL UPPER MACKENZIE REGION

|            | Wages and Salary |      |        | Hunting Trapping Fishing |      |        | Self-Employment |      |        | Without Work |      |        |       |
|------------|------------------|------|--------|--------------------------|------|--------|-----------------|------|--------|--------------|------|--------|-------|
|            | No. of Weeks     | Male | Female | Total                    | Male | Female | Total           | Male | Female | Total        | Male | Female | Total |
| Native     |                  |      |        |                          |      |        |                 |      |        |              |      |        |       |
| 1-3        |                  | 19   | 2      | 21                       | 1    | -      | 1               | -    | -      | -            | -    | 1      | 1     |
| 4-10       |                  | 58   | 2      | 60                       | 7    | -      | 7               | 2    | -      | 2            | 8    | -      | 8     |
| 11-17      |                  | 31   | 1      | 32                       | 3    | -      | 3               | 2    | -      | 2            | 14   | 2      | 16    |
| 18-24      |                  | 15   | -      | 15                       | 20   | -      | 20              | -    | -      | -            | 25   | -      | 25    |
| 25-31      |                  | 10   | -      | 10                       | 7    | -      | 7               | -    | -      | -            | 23   | 1      | 24    |
| 32-38      |                  | 11   | -      | 11                       | 2    | -      | 2               | 2    | -      | 2            | 20   | -      | 20    |
| 39-45      |                  | 8    | 3      | 11                       | 11   | -      | 11              | 1    | -      | 1            | 12   | -      | 12    |
| 46-52      |                  | 69   | 27     | 96                       | 83   | -      | 83              | 2    | 1      | 3            | 42   | 9      | 51    |
| None       |                  | 96   | 7      | 103                      | 183  | 42     | 225             | 308  | 41     | 349          | 173  | 29     | 202   |
| Total      |                  | 317  | 42     | 359                      | 317  | 42     | 359             | 317  | 42     | 359          | 317  | 42     | 359   |
| Non-Native |                  |      |        |                          |      |        |                 |      |        |              |      |        |       |
| 1-3        |                  | -    | 1      | 1                        | -    | -      | -               | -    | -      | -            | 1    | -      | 1     |
| 4-10       |                  | 1    | -      | 1                        | -    | -      | -               | 1    | -      | 1            | 4    | 7      | 11    |
| 11-17      |                  | 4    | 2      | 6                        | -    | -      | -               | 1    | -      | 1            | 5    | 4      | 9     |
| 18-24      |                  | 12   | 2      | 14                       | -    | -      | -               | -    | -      | -            | 3    | 4      | 7     |
| 25-31      |                  | 5    | 4      | 9                        | -    | -      | -               | 4    | 1      | 5            | 8    | -      | 8     |
| 32-38      |                  | 5    | 4      | 9                        | -    | -      | -               | 2    | -      | 2            | 6    | 3      | 9     |
| 39-45      |                  | 6    | 8      | 14                       | -    | -      | -               | -    | -      | -            | -    | -      | -     |
| 46-52      |                  | 221  | 108    | 329                      | 6    | -      | 6               | 38   | 3      | 41           | -    | -      | -     |
| None       |                  | 46   | 10     | 56                       | 294  | 139    | 433             | 254  | 135    | 389          | 273  | 121    | 394   |
| Total      |                  | 300  | 139    | 439                      | 300  | 139    | 439             | 300  | 139    | 439          | 300  | 139    | 439   |

Note: "Labour Force" - those engaged in activity(ies) for not less than 46 weeks.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

NATIVE MALE RESIDENTS 14 YEARS OF AGE AND OVER BY TOTAL WEEKS SPENT AT INCOME PRODUCING ACTIVITIES<sup>1/</sup> VS. WEEKS  
SPENT LOOKING FOR WORK, MACKENZIE IMPACT CORRIDOR, N.W.T.

Lower Mackenzie Region

Number of Weeks at Income Producing Activities

| <u>Weeks Without Work</u> | <u>1 - 3</u> | <u>4 - 10</u> | <u>11 - 17</u> | <u>18 - 24</u> | <u>25 - 31</u> | <u>32 - 38</u> | <u>39 - 45</u> | <u>46 - 52</u> | <u>None</u> | <u>Total</u> |
|---------------------------|--------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|--------------|
| 1-3                       | -            | 1             | -              | -              | -              | -              | -              | -              | -           | 1            |
| 4-10                      | -            | -             | 1              | -              | -              | 2              | 5              | 5              | -           | 13           |
| 11-17                     | -            | -             | 2              | -              | 1              | 11             | 7              | -              | -           | 21           |
| 18-24                     | -            | -             | 1              | 1              | 23             | 10             | -              | -              | 2           | 37           |
| 25-31                     | -            | -             | 1              | 29             | 21             | 1              | -              | -              | -           | 52           |
| 32-38                     | -            | 1             | 27             | 17             | -              | -              | -              | -              | 1           | 46           |
| 39-45                     | 1            | 17            | 28             | -              | -              | -              | -              | -              | -           | 46           |
| 46-52                     | 6            | 11            | -              | -              | -              | -              | -              | -              | -           | 151          |
| None                      | 6            | 18            | 6              | 8              | 5              | 2              | 2              | 147            | 757         | 951          |
| Total                     | 18           | 48            | 66             | 55             | 50             | 26             | 14             | 152            | 773         | 1,197        |

<sup>1/</sup> Wage employment, hunting-trapping, self-employment.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

# APPENDIX 10 (cont'd)

NATIVE MALE RESIDENTS 14 YEARS OF AGE AND OVER BY TOTAL WEEKS SPENT AT INCOME PRODUCING ACTIVITIES<sup>1/</sup> VS. WEEKS SPENT LOOKING FOR WORK, MACKENZIE IMPACT CORRIDOR, N.W.T.

## Central Mackenzie Region

### Number of Weeks at Income Producing Activities

| Weeks Without Work | 1 - 3 | 4 - 10 | 11 - 17 | 18 - 24 | 25 - 31 | 32 - 38 | 39 - 45 | 46 - 52 | None | Total |
|--------------------|-------|--------|---------|---------|---------|---------|---------|---------|------|-------|
| 1-3                | -     | -      | -       | -       | -       | -       | -       | -       | -    | -     |
| 4-10               | -     | -      | -       | -       | 1       | -       | 6       | 2       | -    | 9     |
| 11-17              | -     | -      | -       | -       | -       | 8       | 7       | -       | -    | 15    |
| 18-24              | -     | -      | -       | 1       | 11      | 5       | -       | -       | -    | 17    |
| 25-31              | -     | -      | 1       | 13      | 5       | -       | -       | -       | -    | 19    |
| 32-38              | -     | -      | 19      | 11      | -       | -       | -       | -       | -    | 30    |
| 39-45              | -     | 7      | 13      | -       | -       | -       | -       | -       | -    | 20    |
| 46-52              | 3     | 3      | -       | -       | -       | -       | -       | -       | -    | 13    |
| None               | 1     | 8      | 3       | 1       | -       | -       | -       | 31      | 262  | 306   |
| Total              | 4     | 18     | 36      | 26      | 17      | 13      | 13      | 33      | 269  | 429   |

<sup>1/</sup> Wage employment, hunting-trapping, self-employment.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.



NATIVE MALE RESIDENTS 14 YEARS OF AGE AND OVER BY TOTAL WEEKS SPENT AT INCOME PRODUCING ACTIVITIES<sup>1/</sup> VS. WEEKS  
SPENT LOOKING FOR WORK, MACKENZIE IMPACT CORRIDOR, N.W.T.

Upper Mackenzie Region

Number of Weeks at Income Producing Activities

| <u>Weeks Without Work</u> | <u>1 - 3</u> | <u>4 - 10</u> | <u>11 - 17</u> | <u>18 - 24</u> | <u>25 - 31</u> | <u>32 - 38</u> | <u>39 - 45</u> | <u>46 - 52</u> | <u>None</u> | <u>Total</u> |
|---------------------------|--------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|--------------|
| 1-3                       | -            | -             | 1              | -              | -              | -              | -              | -              | -           | 1            |
| 4-10                      | 1            | 1             | -              | -              | -              | -              | 2              | 5              | 1           | 10           |
| 11-17                     | 1            | 3             | -              | -              | -              | 7              | 5              | -              | -           | 16           |
| 18-24                     | -            | 2             | 1              | -              | 20             | 4              | -              | -              | 1           | 28           |
| 25-31                     | 1            | 1             | 3              | 15             | 3              | -              | -              | -              | -           | 23           |
| 32-38                     | -            | -             | 12             | 8              | -              | -              | -              | -              | -           | 20           |
| 39-45                     | 1            | 6             | 5              | -              | -              | -              | -              | -              | -           | 12           |
| 46-52                     | 12           | 15            | -              | -              | -              | -              | -              | -              | 16          | 43           |
| None                      | 2            | 10            | 5              | 1              | -              | -              | 1              | 138            | 525         | 682          |
| Total                     | 18           | 38            | 27             | 24             | 23             | 11             | 8              | 143            | 543         | 835          |

<sup>1/</sup> Wage employment, hunting-trapping, self-employment.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 14.

APPENDIX 11

NATIVE AND NON-NATIVE LABOUR FORCE BY SOURCE OF INCOME AND INCOME CATEGORY

TOTAL MACKENZIE IMPACT CORRIDOR

|                            |            | \$1-399 | \$400-699 | \$700-999 | \$1,000-1,999 | \$2,000-2,999 | \$3,000-3,999 | \$4,000-4,999 | \$5,000-5,999 | \$6,000-9,999 | \$10,000 & over | Not Spec. | None  | Total |
|----------------------------|------------|---------|-----------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------|-------|-------|
| Wages & Salaries           | Native     | M 58    | 69        | 40        | 137           | 72            | 53            | 40            | 42            | 107           | 9               | 65        | 186   | 878   |
|                            | F 11       | 6       | 8         | 25        | 26            | 35            | 26            | 15            | 6             | 9             | -               | 12        | 30    | 183   |
|                            | T 69       | 75      | 48        | 162       | 79            | 107           | 79            | 55            | 48            | 116           | 9               | 77        | 216   | 1,061 |
| Hunting, Trapping, Fishing | Non-Native | M -     | 1         | 3         | 9             | 9             | 9             | 14            | 10            | 220           | 199             | 53        | 77    | 604   |
|                            | F 1        | 2       | 2         | 15        | 24            | 17            | 24            | 38            | 23            | 94            | 8               | 24        | 21    | 269   |
|                            | T 1        | 3       | 5         | 24        | 33            | 26            | 33            | 52            | 33            | 314           | 207             | 77        | 98    | 873   |
| Self-Employment            | Total      | M 58    | 70        | 43        | 146           | 81            | 62            | 54            | 52            | 327           | 208             | 118       | 263   | 1,482 |
|                            | F 12       | 8       | 8         | 10        | 40            | 52            | 50            | 53            | 29            | 103           | 8               | 36        | 51    | 452   |
|                            | T 70       | 78      | 78        | 53        | 186           | 133           | 112           | 107           | 81            | 430           | 216             | 154       | 314   | 1,934 |
| Native                     | M 131      | 59      | 21        | 21        | 19            | 6             | 3             | 3             | -             | 2             | -               | 73        | 561   | 878   |
|                            | F 1        | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 181   | 183   |
|                            | T 132      | 59      | 21        | 21        | 19            | 6             | 3             | 3             | -             | 2             | -               | 74        | 742   | 1,061 |
| Non-Native                 | M 1        | 1       | -         | -         | -             | -             | -             | 1             | -             | 1             | -               | 6         | 594   | 604   |
|                            | F -        | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 268   | 269   |
|                            | T 1        | 1       | 1         | -         | -             | -             | -             | 1             | -             | 1             | -               | 7         | 862   | 873   |
| Total                      | M 132      | 60      | 21        | 21        | 19            | 6             | 3             | 4             | -             | 3             | -               | 79        | 1,155 | 1,482 |
|                            | F 1        | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | 2         | 449   | 452   |
|                            | T 133      | 60      | 21        | 21        | 19            | 6             | 3             | 4             | -             | 3             | -               | 81        | 1,604 | 1,934 |
| Native                     | M 5        | 1       | -         | -         | -             | 2             | 1             | -             | -             | -             | -               | 9         | 860   | 878   |
|                            | F 3        | 1       | -         | -         | 1             | -             | -             | -             | -             | -             | -               | 2         | 176   | 183   |
|                            | T 8        | 2       | -         | -         | 1             | 2             | 1             | -             | -             | -             | -               | 11        | 1,036 | 1,061 |
| Non-Native                 | M -        | 2       | 1         | 1         | 1             | 1             | -             | 1             | 4             | 15            | 19              | 26        | 534   | 604   |
|                            | F -        | -       | -         | -         | -             | -             | -             | -             | -             | 1             | 1               | 4         | 263   | 269   |
|                            | T -        | 2       | 1         | 1         | 1             | 1             | -             | 1             | 4             | 16            | 20              | 30        | 797   | 873   |
| Total                      | M 5        | 3       | 1         | 1         | 1             | 3             | 1             | 1             | 4             | 15            | 19              | 35        | 1,394 | 1,482 |
|                            | F 3        | 1       | -         | -         | 1             | -             | -             | -             | -             | 1             | 1               | 6         | 439   | 452   |
|                            | T 8        | 4       | 1         | 1         | 2             | 3             | 1             | 1             | 4             | 16            | 20              | 41        | 1,833 | 1,934 |

NATIVE AND NON-NATIVE LABOUR FORCE BY SOURCE OF INCOME AND INCOME CATEGORY

TOTAL MACKENZIE IMPACT CORRIDOR

|            |   | \$1-399 | \$400-699 | \$700-999 | \$1,000-1,999 | \$2,000-2,999 | \$3,000-3,999 | \$4,000-4,999 | \$5,000-5,999 | \$6,000-9,999 | \$10,000 & over | Not Spec. | None  | Total |
|------------|---|---------|-----------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------|-------|-------|
| Native     | M | 94      | 85        | 57        | 161           | 83            | 57            | 43            | 43            | 111           | 8               | 98        | 38    | 878   |
|            | F | 13      | 7         | 8         | 26            | 35            | 26            | 15            | 6             | 9             | -               | 14        | 24    | 183   |
|            | T | 107     | 92        | 65        | 187           | 118           | 83            | 58            | 49            | 120           | 8               | 112       | 62    | 1,061 |
| Non-Native | M | 1       | -         | 3         | 10            | 10            | 9             | 15            | 12            | 236           | 217             | 76        | 15    | 604   |
|            | F | 1       | 2         | 2         | 15            | 17            | 24            | 38            | 23            | 95            | 9               | 27        | 16    | 269   |
|            | T | 2       | 2         | 5         | 25            | 27            | 33            | 53            | 35            | 331           | 226             | 103       | 31    | 873   |
| Total      | M | 95      | 85        | 60        | 171           | 93            | 66            | 58            | 55            | 347           | 225             | 174       | 53    | 1,482 |
|            | F | 14      | 9         | 10        | 41            | 52            | 50            | 53            | 29            | 104           | 9               | 41        | 40    | 452   |
|            | T | 109     | 94        | 70        | 212           | 145           | 116           | 111           | 84            | 451           | 234             | 215       | 93    | 1,934 |
| Native     | M | 257     | 144       | 18        | 16            | 1             | -             | -             | -             | -             | -               | 1         | 441   | 878   |
|            | F | 27      | 6         | 6         | 2             | -             | -             | -             | -             | -             | -               | 1         | 141   | 183   |
|            | T | 284     | 150       | 24        | 18            | 1             | -             | -             | -             | -             | -               | 2         | 582   | 1,061 |
| Non-Native | M | 288     | 31        | 5         | 7             | 1             | -             | -             | -             | -             | -               | 1         | 271   | 604   |
|            | F | 9       | 2         | -         | 1             | -             | -             | -             | -             | -             | -               | -         | 257   | 269   |
|            | T | 297     | 33        | 5         | 8             | 1             | -             | -             | -             | -             | -               | 1         | 528   | 873   |
| Total      | M | 545     | 175       | 23        | 23            | 2             | -             | -             | -             | -             | -               | 2         | 712   | 1,482 |
|            | F | 36      | 8         | 6         | 3             | -             | -             | -             | -             | -             | -               | 1         | 398   | 452   |
|            | T | 581     | 183       | 29        | 26            | 2             | -             | -             | -             | -             | -               | 3         | 1,110 | 1,934 |
| Native     | M | 91      | 86        | 66        | 184           | 88            | 66            | 44            | 44            | 112           | 10              | 57        | 30    | 878   |
|            | F | 18      | 8         | 11        | 28            | 32            | 29            | 16            | 6             | 9             | -               | 9         | 17    | 183   |
|            | T | 109     | 94        | 77        | 212           | 120           | 95            | 60            | 50            | 121           | 10              | 66        | 47    | 1,061 |
| Non-Native | M | 36      | 5         | 6         | 11            | 10            | 9             | 15            | 12            | 235           | 220             | 34        | 11    | 604   |
|            | F | 4       | 3         | 2         | 15            | 17            | 24            | 38            | 23            | 94            | 10              | 23        | 16    | 269   |
|            | T | 40      | 8         | 8         | 26            | 27            | 33            | 53            | 35            | 329           | 230             | 57        | 27    | 873   |
| Total      | M | 127     | 91        | 72        | 195           | 98            | 75            | 59            | 56            | 347           | 230             | 91        | 41    | 1,482 |
|            | F | 22      | 11        | 13        | 43            | 49            | 53            | 54            | 29            | 103           | 10              | 32        | 33    | 452   |
|            | T | 149     | 102       | 85        | 238           | 147           | 128           | 113           | 85            | 450           | 240             | 123       | 74    | 1,934 |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 25 to 30.

# APPENDIX 11 (cont'd)

## NATIVE AND NON-NATIVE LABOUR FORCE BY SOURCE OF INCOME AND INCOME CATEGORY

### TOTAL LOWER MACKENZIE REGION

|                            |            | \$1-399 | \$400-699 | \$700-999 | \$1,000-1,999 | \$2,000-2,999 | \$3,000-3,999 | \$4,000-4,999 | \$5,000-5,999 | \$6,000-9,999 | \$10,000 & over | Not Spec. | None | Total |
|----------------------------|------------|---------|-----------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------|------|-------|
| Hunting, Trapping, Fishing | Native     | M       | 11        | 16        | 21            | 78            | 41            | 25            | 28            | 25            | 6               | 33        | 54   | 403   |
|                            | F          | 6       | 4         | 5         | 17            | 17            | 25            | 15            | 8             | 3             | -               | 6         | 17   | 114   |
|                            | T          | 17      | 20        | 26        | 95            | 95            | 66            | 40            | 36            | 28            | 6               | 39        | 71   | 517   |
| Wages & Salaries           | Non-Native | M       | -         | -         | 1             | 4             | 5             | 5             | 5             | 2             | 92              | 18        | 29   | 242   |
|                            | F          | -       | 1         | -         | -             | -             | 3             | 5             | 15            | 11            | 4               | 6         | 5    | 113   |
|                            | T          | -       | 1         | 1         | 4             | 4             | 8             | 10            | 20            | 13            | 96              | 24        | 34   | 355   |
| Total                      | M          | 11      | 16        | 22        | 82            | 46            | 30            | 33            | 27            | 27            | 98              | 51        | 83   | 645   |
|                            | F          | 6       | 5         | 5         | 17            | 28            | 20            | 23            | 14            | 71            | 4               | 12        | 22   | 227   |
|                            | T          | 17      | 21        | 27        | 99            | 74            | 50            | 56            | 41            | 217           | 102             | 63        | 105  | 872   |
| Hunting, Trapping, Fishing | Native     | M       | 26        | 10        | 12            | 3             | 2             | 1             | -             | -             | -               | 33        | 307  | 403   |
|                            | F          | 1       | -         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 112  | 114   |
|                            | T          | 27      | 10        | 7         | 12            | 3             | 2             | 1             | -             | -             | -               | 34        | 419  | 517   |
| Non-Native                 | M          | 1       | 1         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 239  | 242   |
|                            | F          | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 112  | 113   |
|                            | T          | 1       | 1         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 351  | 355   |
| Total                      | M          | 27      | 11        | 7         | 12            | 3             | 2             | 1             | -             | -             | -               | 33        | 546  | 645   |
|                            | F          | 1       | -         | -         | -             | -             | -             | -             | -             | -             | -               | 2         | 224  | 227   |
|                            | T          | 28      | 11        | 7         | 12            | 3             | 2             | 1             | -             | -             | -               | 35        | 770  | 872   |
| Native                     | M          | 2       | 1         | -         | -             | -             | 1             | -             | -             | -             | -               | 4         | 394  | 403   |
|                            | F          | 1       | -         | -         | 1             | 1             | -             | -             | -             | -             | -               | 2         | 110  | 114   |
|                            | T          | 3       | 1         | -         | 1             | 1             | 1             | -             | -             | -             | -               | 6         | 504  | 517   |
| Non-Native                 | M          | -       | 1         | 1         | 1             | -             | -             | -             | 1             | 1             | 9               | 6         | 221  | 242   |
|                            | F          | -       | -         | -         | -             | -             | -             | -             | -             | -             | 1               | 1         | 111  | 113   |
|                            | T          | -       | 1         | 1         | 1             | -             | -             | 1             | -             | 1             | 10              | 7         | 332  | 355   |
| Total                      | M          | 2       | 2         | 1         | 1             | 1             | 1             | 1             | 1             | 1             | 9               | 10        | 615  | 645   |
|                            | F          | 1       | -         | -         | 1             | -             | -             | -             | -             | -             | 1               | 3         | 221  | 227   |
|                            | T          | 3       | 2         | 1         | 2             | 1             | 1             | 1             | 1             | 1             | 10              | 13        | 836  | 872   |

NATIVE AND NON-NATIVE LABOUR FORCE BY SOURCE OF INCOME AND INCOME CATEGORY

TOTAL LOWER MACKENZIE REGION

|            |   | \$1-399 | \$400-6999 | \$700-999 | \$1,000-1,999 | \$2,000-2,999 | \$3,000-3,999 | \$4,000-4,999 | \$5,000-5,999 | \$6,000-9,999 | \$10,000 & over | Not Spec. | None | Total |
|------------|---|---------|------------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------|------|-------|
| Native     | M | 8       | 15         | 19        | 94            | 46            | 27            | 30            | 25            | 68            | 5               | 52        | 14   | 403   |
|            | F | 7       | 4          | 5         | 18            | 25            | 15            | 8             | 3             | 8             | -               | 8         | 13   | 114   |
|            | T | 15      | 19         | 24        | 112           | 71            | 42            | 38            | 28            | 76            | 5               | 60        | 27   | 517   |
| Non-Native | M | 1       | -          | 1         | 5             | 5             | 5             | 6             | 3             | 83            | 101             | 21        | 11   | 242   |
|            | F | -       | 1          | -         | -             | 3             | 5             | 15            | 11            | 63            | 5               | 7         | 3    | 113   |
|            | T | 1       | 1          | 1         | 5             | 8             | 10            | 21            | 14            | 146           | 106             | 28        | 14   | 355   |
| Total      | M | 9       | 15         | 20        | 99            | 51            | 32            | 36            | 28            | 151           | 106             | 73        | 25   | 645   |
|            | F | 7       | 5          | 5         | 18            | 28            | 20            | 23            | 14            | 71            | 5               | 15        | 16   | 227   |
|            | T | 16      | 20         | 25        | 117           | 79            | 52            | 59            | 42            | 222           | 111             | 88        | 41   | 872   |
| Native     | M | 107     | 76         | 8         | 2             | -             | -             | -             | -             | -             | -               | 1         | 209  | 403   |
|            | F | 19      | 2          | 4         | 2             | -             | -             | -             | -             | -             | -               | -         | 87   | 114   |
|            | T | 126     | 78         | 12        | 4             | -             | -             | -             | -             | -             | -               | 1         | 296  | 517   |
| Non-Native | M | 86      | 13         | 3         | 6             | -             | -             | -             | -             | -             | -               | -         | 134  | 242   |
|            | F | 6       | -          | -         | 1             | -             | -             | -             | -             | -             | -               | -         | 106  | 113   |
|            | T | 92      | 13         | 3         | 7             | -             | -             | -             | -             | -             | -               | -         | 240  | 355   |
| Total      | M | 193     | 89         | 11        | 8             | -             | -             | -             | -             | -             | -               | 1         | 343  | 645   |
|            | F | 25      | 2          | 4         | 3             | -             | -             | -             | -             | -             | -               | -         | 193  | 227   |
|            | T | 218     | 91         | 15        | 11            | -             | -             | -             | -             | -             | -               | 1         | 536  | 872   |
| Native     | M | 18      | 18         | 19        | 91            | 48            | 35            | 29            | 25            | 68            | 7               | 31        | 14   | 403   |
|            | F | 11      | 4          | 7         | 19            | 22            | 17            | 9             | 3             | 8             | -               | 4         | 10   | 114   |
|            | T | 29      | 22         | 26        | 110           | 70            | 52            | 38            | 28            | 76            | 7               | 35        | 24   | 517   |
| Non-Native | M | 9       | 2          | 2         | 6             | 5             | 5             | 6             | 3             | 83            | 102             | 12        | 7    | 242   |
|            | F | 1       | 1          | -         | -             | 3             | 5             | 15            | 11            | 62            | 6               | 6         | 3    | 113   |
|            | T | 10      | 3          | 2         | 6             | 8             | 10            | 21            | 14            | 145           | 108             | 18        | 10   | 355   |
| Total      | M | 27      | 20         | 21        | 97            | 53            | 40            | 35            | 28            | 151           | 109             | 43        | 21   | 645   |
|            | F | 12      | 5          | 7         | 19            | 25            | 22            | 24            | 14            | 70            | 6               | 10        | 13   | 227   |
|            | T | 39      | 25         | 28        | 116           | 78            | 62            | 59            | 42            | 221           | 115             | 53        | 34   | 872   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 31 to 36.



# APPENDIX 11 (cont'd)

## NATIVE AND NON-NATIVE LABOUR FORCE BY SOURCE OF INCOME AND INCOME CATEGORY

### TOTAL CENTRAL MACKENZIE REGION

|                            |            | \$1-399 | \$400-699 | \$700-999 | \$1,000-1,999 | \$2,000-2,999 | \$3,000-3,999 | \$4,000-4,999 | \$5,000-5,999 | \$6,000-9,000 | \$10,000 & over | Not Spec. | None | Total |
|----------------------------|------------|---------|-----------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------|------|-------|
| Hunting, Trapping, Fishing | Native     | 19      | 19        | 10        | 23            | 16            | 15            | 4             | 2             | 11            | 2               | 2         | 35   | 158   |
|                            | F          | 3       | 2         | 1         | 4             | 4             | 4             | 2             | 1             | -             | -               | -         | 6    | 27    |
|                            | T          | 22      | 21        | 11        | 27            | 20            | 19            | 6             | 3             | 11            | 2               | 2         | 41   | 185   |
| Wages & Salaries           | Non-Native | -       | -         | 1         | -             | -             | -             | 2             | 2             | 22            | 26              | 5         | 4    | 62    |
|                            | F          | -       | -         | -         | -             | 3             | 4             | 2             | -             | 7             | 1               | -         | -    | 17    |
|                            | T          | -       | -         | 1         | -             | 3             | 4             | 4             | 2             | 29            | 27              | 5         | 4    | 79    |
| Self-Employment            | Total      | 19      | 19        | 11        | 23            | 16            | 15            | 6             | 4             | 33            | 28              | 7         | 39   | 220   |
|                            | F          | 3       | 2         | 1         | 4             | 7             | 8             | 4             | 1             | 7             | 1               | -         | 6    | 44    |
|                            | T          | 22      | 21        | 12        | 27            | 23            | 23            | 10            | 5             | 40            | 29              | 7         | 45   | 264   |
| Hunting, Trapping, Fishing | Native     | 51      | 20        | 3         | 3             | -             | -             | -             | -             | -             | -               | 9         | 72   | 158   |
|                            | F          | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 27   | 27    |
|                            | T          | 51      | 20        | 3         | 3             | -             | -             | -             | -             | -             | -               | 9         | 99   | 185   |
| Wages & Salaries           | Non-Native | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 62   | 62    |
|                            | F          | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 17   | 17    |
|                            | T          | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 79   | 79    |
| Self-Employment            | Total      | 51      | 20        | 3         | 3             | -             | -             | -             | -             | -             | -               | 9         | 134  | 220   |
|                            | F          | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 44   | 44    |
|                            | T          | 51      | 20        | 3         | 3             | -             | -             | -             | -             | -             | -               | 9         | 178  | 264   |
| Hunting, Trapping, Fishing | Native     | 1       | -         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 156  | 158   |
|                            | F          | 1       | 1         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 25   | 27    |
|                            | T          | 2       | 1         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 181  | 185   |
| Wages & Salaries           | Non-Native | -       | -         | -         | -             | -             | -             | -             | 1             | -             | -               | 1         | 60   | 62    |
|                            | F          | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 16   | 17    |
|                            | T          | -       | -         | -         | -             | -             | -             | -             | 1             | -             | -               | 2         | 76   | 79    |
| Self-Employment            | Total      | 1       | -         | -         | -             | -             | -             | -             | 1             | -             | -               | 2         | 216  | 220   |
|                            | F          | 1       | 1         | -         | -             | -             | -             | -             | -             | -             | -               | 1         | 41   | 44    |
|                            | T          | 2       | 1         | -         | -             | -             | -             | -             | 1             | -             | -               | 3         | 257  | 264   |

NATIVE AND NON-NATIVE LABOUR FORCE BY SOURCE OF INCOME AND INCOME CATEGORY

TOTAL CENTRAL MACKENZIE REGION

|            |   | \$1-399 | \$400-699 | \$700-999 | \$1,000-1,999 | \$2,000-2,999 | \$3,000-3,999 | \$4,000-4,999 | \$5,000-5,999 | \$6,000-9,999 | \$10,000 & over | Not Spec. | None | Total |
|------------|---|---------|-----------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------|------|-------|
| Native     | M | 30      | 23        | 12        | 28            | 18            | 16            | 4             | 2             | 11            | 2               | 4         | 8    | 158   |
|            | F | 3       | 3         | 1         | 4             | 4             | 4             | 2             | 1             | -             | -               | -         | 5    | 27    |
|            | T | 33      | 26        | 13        | 32            | 22            | 20            | 6             | 3             | 11            | 2               | 4         | 13   | 185   |
| Non-Native | M | -       | -         | 1         | -             | -             | -             | 2             | 2             | 21            | 26              | 6         | 4    | 62    |
|            | F | -       | -         | -         | -             | 3             | 4             | 2             | -             | 7             | 1               | -         | -    | 17    |
|            | T | -       | -         | 1         | -             | 3             | 4             | 4             | 2             | 28            | 27              | 6         | 4    | 79    |
| Total      | M | 30      | 23        | 13        | 28            | 18            | 16            | 6             | 4             | 32            | 28              | 10        | 12   | 220   |
|            | F | 3       | 3         | 1         | 4             | 7             | 8             | 4             | 1             | 7             | 1               | -         | 5    | 44    |
|            | T | 33      | 26        | 14        | 32            | 25            | 24            | 10            | 5             | 39            | 29              | 10        | 17   | 264   |
| Native     | M | 57      | 29        | 1         | 6             | -             | -             | -             | -             | -             | -               | -         | 65   | 158   |
|            | F | 4       | 2         | 2         | -             | -             | -             | -             | -             | -             | -               | 1         | 18   | 27    |
|            | T | 61      | 31        | 3         | 6             | -             | -             | -             | -             | -             | -               | 1         | 83   | 185   |
| Non-Native | M | 31      | 2         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 29   | 62    |
|            | F | -       | -         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 17   | 17    |
|            | T | 31      | 2         | -         | -             | -             | -             | -             | -             | -             | -               | -         | 46   | 79    |
| Total      | M | 88      | 31        | 1         | 6             | -             | -             | -             | -             | -             | -               | -         | 94   | 220   |
|            | F | 4       | 2         | 2         | -             | -             | -             | -             | -             | -             | -               | 1         | 35   | 44    |
|            | T | 92      | 33        | 3         | 6             | -             | -             | -             | -             | -             | -               | 1         | 129  | 264   |
| Native     | M | 21      | 23        | 12        | 37            | 20            | 16            | 6             | 2             | 11            | 2               | 4         | 4    | 158   |
|            | F | 2       | 4         | 3         | 5             | 4             | 4             | 2             | 1             | -             | -               | 1         | 1    | 27    |
|            | T | 23      | 27        | 15        | 42            | 24            | 20            | 8             | 3             | 11            | 2               | 5         | 5    | 185   |
| Non-Native | M | 3       | -         | 1         | -             | -             | -             | 2             | 2             | 21            | 27              | 2         | 4    | 62    |
|            | F | -       | -         | -         | -             | 3             | 4             | 2             | -             | 7             | 1               | -         | -    | 17    |
|            | T | 3       | -         | 1         | -             | 3             | 4             | 4             | 2             | 28            | 28              | 2         | 4    | 79    |
| Total      | M | 24      | 23        | 13        | 37            | 20            | 16            | 8             | 4             | 32            | 29              | 6         | 8    | 220   |
|            | F | 2       | 4         | 3         | 5             | 7             | 8             | 4             | 1             | 7             | 1               | 1         | 1    | 44    |
|            | T | 26      | 27        | 16        | 42            | 27            | 24            | 12            | 5             | 39            | 30              | 7         | 9    | 264   |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 31 to 36.

## APPENDIX 11 (cont'd)

## NATIVE AND NON-NATIVE LABOUR FORCE BY SOURCE OF INCOME AND INCOME CATEGORY

## TOTAL UPPER MACKENZIE REGION

|   |        | \$1-399 | \$400-<br>699 | \$700-<br>999 | \$1,000-<br>1,999 | \$2,000-<br>2,999 | \$3,000-<br>3,999 | \$4,000-<br>4,999 | \$5,000-<br>5,999 | \$6,000-<br>9,999 | \$10,000<br>& over | Not<br>Spec. | None | Total |
|---|--------|---------|---------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------|------|-------|
| Hunting, Trapping,<br>Fishing<br>Wages & Salaries | Native | 28      | 34            | 9             | 36                | 15                | 13                | 8                 | 15                | 31                | 1                  | 30           | 97   | 317   |
|   | F      | 2       | -             | 2             | 4                 | 6                 | 7                 | 5                 | 2                 | 1                 | -                  | 6            | 7    | 42    |
|   | T      | 30      | 34            | 11            | 40                | 21                | 20                | 13                | 17                | 32                | 1                  | 36           | 104  | 359   |
| Non-Native  | M      | -       | 1             | 1             | 5                 | 4                 | 4                 | 7                 | 6                 | 117               | 81                 | 30           | 44   | 300   |
|   | F      | 1       | 1             | 2             | 15                | 11                | 15                | 21                | 12                | 24                | 3                  | 18           | 16   | 139   |
|   | T      | 1       | 2             | 3             | 20                | 15                | 19                | 28                | 18                | 141               | 84                 | 48           | 60   | 439   |
| Total   | M      | 28      | 35            | 10            | 41                | 19                | 17                | 15                | 21                | 148               | 82                 | 60           | 141  | 617   |
|   | F      | 3       | 1             | 4             | 19                | 17                | 22                | 26                | 14                | 25                | 3                  | 24           | 23   | 181   |
|   | T      | 31      | 36            | 14            | 60                | 36                | 39                | 41                | 35                | 173               | 85                 | 84           | 164  | 798   |
| Native  | M      | 54      | 29            | 11            | 4                 | 3                 | 1                 | 2                 | -                 | -                 | -                  | 31           | 182  | 317   |
|   | F      | -       | -             | -             | -                 | -                 | -                 | -                 | -                 | -                 | -                  | -            | 42   | 42    |
|   | T      | 54      | 29            | 11            | 4                 | 3                 | 1                 | 2                 | -                 | -                 | -                  | 31           | 224  | 359   |
| Non-Native  | M      | -       | -             | -             | -                 | -                 | -                 | 1                 | -                 | -                 | -                  | 6            | 293  | 300   |
|   | F      | -       | -             | -             | -                 | -                 | -                 | -                 | -                 | -                 | -                  | -            | 139  | 139   |
|   | T      | -       | -             | -             | -                 | -                 | -                 | 1                 | -                 | -                 | -                  | 6            | 432  | 439   |
| Total   | M      | 54      | 29            | 11            | 4                 | 3                 | 1                 | 3                 | -                 | -                 | -                  | 37           | 475  | 617   |
|   | F      | -       | -             | -             | -                 | -                 | -                 | -                 | -                 | -                 | -                  | -            | 181  | 181   |
|   | T      | 54      | 29            | 11            | 4                 | 3                 | 1                 | 3                 | -                 | -                 | -                  | 37           | 656  | 798   |
| Native  | M      | 2       | -             | -             | -                 | 1                 | -                 | -                 | -                 | -                 | -                  | 4            | 310  | 317   |
|   | F      | 1       | -             | -             | -                 | -                 | -                 | -                 | -                 | -                 | -                  | -            | 41   | 42    |
|   | T      | 3       | -             | -             | -                 | 1                 | -                 | -                 | -                 | -                 | -                  | 4            | 351  | 359   |
| Non-Native  | M      | -       | 1             | -             | -                 | 1                 | -                 | -                 | 2                 | 14                | 10                 | 19           | 253  | 300   |
|   | F      | -       | -             | -             | -                 | -                 | -                 | -                 | -                 | 1                 | -                  | 2            | 136  | 139   |
|   | T      | -       | 1             | -             | -                 | 1                 | -                 | -                 | 2                 | 15                | 10                 | 21           | 389  | 439   |
| Total   | M      | 2       | 1             | -             | -                 | 2                 | -                 | -                 | 2                 | 14                | 10                 | 23           | 563  | 617   |
|   | F      | 1       | -             | -             | -                 | -                 | -                 | -                 | -                 | 1                 | -                  | 2            | 177  | 181   |
|   | T      | 3       | 1             | -             | -                 | 2                 | -                 | -                 | 2                 | 15                | 10                 | 25           | 740  | 798   |

Self-Employment

NATIVE AND NON-NATIVE LABOUR FORCE BY SOURCE OF INCOME AND INCOME CATEGORY

TOTAL UPPER MACKENZIE REGION

|                     |        | \$1-399 | \$400-<br>699 | \$700-<br>999 | \$1,000-<br>1,999 | \$2,000-<br>2,999 | \$3,000-<br>3,999 | \$4,000-<br>4,999 | \$5,000-<br>5,999 | \$6,000-<br>9,999 | \$10,000<br>& over | Not<br>Spec. | None | Total |
|---------------------|--------|---------|---------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------|------|-------|
| Total Earned Income | Native | 56      | 47            | 26            | 39                | 19                | 14                | 9                 | 16                | 32                | 1                  | 42           | 16   | 317   |
|                     | F      | 3       | -             | 2             | 4                 | 6                 | 7                 | 5                 | 2                 | 1                 | -                  | 6            | 6    | 42    |
|                     | T      | 39      | 47            | 28            | 43                | 25                | 21                | 14                | 18                | 33                | 1                  | 48           | 22   | 359   |
| Non-Native          | M      | -       | -             | 1             | 5                 | 5                 | 4                 | 7                 | 7                 | 132               | 90                 | 49           | -    | 300   |
|                     | F      | 1       | 1             | 2             | 15                | 11                | 15                | 21                | 12                | 25                | 3                  | 20           | 13   | 139   |
|                     | T      | 1       | 1             | 3             | 20                | 16                | 19                | 28                | 19                | 157               | 93                 | 69           | 13   | 439   |
| Total               | M      | 56      | 47            | 27            | 44                | 24                | 18                | 16                | 23                | 164               | 91                 | 91           | 16   | 617   |
|                     | F      | 4       | 1             | 4             | 19                | 17                | 22                | 26                | 14                | 26                | 3                  | 26           | 19   | 181   |
|                     | T      | 60      | 48            | 31            | 63                | 41                | 40                | 42                | 37                | 190               | 94                 | 117          | 35   | 798   |
| Native              | M      | 93      | 39            | 9             | 8                 | 1                 | -                 | -                 | -                 | -                 | -                  | -            | 167  | 317   |
|                     | F      | 4       | 2             | -             | -                 | -                 | -                 | -                 | -                 | -                 | -                  | -            | 36   | 42    |
|                     | T      | 97      | 41            | 9             | 8                 | 1                 | -                 | -                 | -                 | -                 | -                  | -            | 203  | 359   |
| Non-Native          | M      | 171     | 16            | 2             | 1                 | 1                 | -                 | -                 | -                 | -                 | -                  | 1            | 108  | 300   |
|                     | F      | 3       | 2             | -             | -                 | -                 | -                 | -                 | -                 | -                 | -                  | -            | 134  | 139   |
|                     | T      | 174     | 18            | 2             | 1                 | 1                 | -                 | -                 | -                 | -                 | -                  | 1            | 242  | 439   |
| Total               | M      | 264     | 55            | 11            | 9                 | 2                 | -                 | -                 | -                 | -                 | -                  | 1            | 275  | 617   |
|                     | F      | 7       | 4             | -             | -                 | -                 | -                 | -                 | -                 | -                 | -                  | -            | 170  | 181   |
|                     | T      | 271     | 59            | 11            | 9                 | 2                 | -                 | -                 | -                 | -                 | -                  | 1            | 445  | 798   |
| Native              | M      | 52      | 45            | 35            | 56                | 20                | 15                | 9                 | 17                | 33                | 1                  | 22           | 12   | 317   |
|                     | F      | 5       | -             | 1             | 4                 | 6                 | 8                 | 5                 | 2                 | 1                 | -                  | 4            | 6    | 42    |
|                     | T      | 57      | 45            | 36            | 60                | 26                | 23                | 14                | 19                | 34                | 1                  | 26           | 18   | 359   |
| Non-Native          | M      | 24      | 3             | 3             | 5                 | 5                 | 4                 | 7                 | 7                 | 131               | 91                 | 20           | -    | 300   |
|                     | F      | 3       | 2             | 2             | 15                | 11                | 15                | 21                | 12                | 25                | 3                  | 17           | 13   | 139   |
|                     | T      | 27      | 5             | 5             | 20                | 16                | 19                | 28                | 19                | 156               | 94                 | 37           | 13   | 439   |
| Total               | M      | 76      | 48            | 38            | 61                | 25                | 19                | 16                | 24                | 164               | 92                 | 42           | 12   | 617   |
|                     | F      | 8       | 2             | 3             | 19                | 17                | 23                | 26                | 14                | 26                | 3                  | 21           | 19   | 181   |
|                     | T      | 84      | 50            | 41            | 80                | 42                | 42                | 42                | 38                | 190               | 95                 | 63           | 31   | 798   |

Source:

DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Tables 31 to 36.

# APPENDIX 12

## NUMBER OF PERSONS EMPLOYED AND TOTAL EARNINGS BY EMPLOYER, MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

### FEDERAL GOVERNMENT

|                                 | Male |                  |    | Native |        |    | Total |         |    | Male |         |    | Non-Native |         |    | Total |         |    |
|---------------------------------|------|------------------|----|--------|--------|----|-------|---------|----|------|---------|----|------------|---------|----|-------|---------|----|
|                                 |      |                  |    | Female |        |    |       |         |    |      |         |    | Female     |         |    |       |         |    |
|                                 | No.  | Earned           | \$ | No.    | Earned | \$ | No.   | Earned  | \$ | No.  | Earned  | \$ | No.        | Earned  | \$ | No.   | Earned  | \$ |
| <u>Lower Mackenzie Region</u>   |      |                  |    |        |        |    |       |         |    |      |         |    |            |         |    |       |         |    |
| Inuvik                          | 22   | 107,814          |    | 20     | 48,950 |    | 42    | 156,764 |    | 72   | 611,621 |    | 44         | 238,468 |    | 116   | 850,089 |    |
|                                 | 2    | NS <sup>1/</sup> |    | 3      | NS     |    | 5     | NS      |    | 3    | NS      |    | 1          | NS      |    | 4     | NS      |    |
| Aklavik                         | 11   | 25,880           |    | 1      | 1,680  |    | 12    | 27,560  |    | 5    | 31,036  |    | 3          | 11,000  |    | 8     | 42,036  |    |
| Arctic Red River                | 1    | 5,700            |    | 1      | 1,680  |    | 2     | 7,380   |    | -    | -       |    | -          | -       |    | -     | -       |    |
| Fort McPherson                  | 37   | 101,404          |    | 1      | 960    |    | 38    | 102,364 |    | 3    | 29,300  |    | 3          | 10,528  |    | 6     | 39,828  |    |
| Tuktoyaktuk                     | 24   | 36,862           |    | 3      | 5,980  |    | 27    | 42,842  |    | -    | -       |    | -          | -       |    | -     | -       |    |
|                                 | 4    | NS               |    | 1      | NS     |    | 5     | NS      |    | -    | -       |    | -          | -       |    | -     | -       |    |
| Total Lower Region              | 95   | 277,660          |    | 26     | 59,250 |    | 121   | 336,910 |    | 80   | 671,957 |    | 50         | 259,996 |    | 130   | 931,953 |    |
|                                 | 6    | NS               |    | 4      | NS     |    | 10    | NS      |    | 3    | NS      |    | 1          | NS      |    | 4     | NS      |    |
| <u>Central Mackenzie Region</u> |      |                  |    |        |        |    |       |         |    |      |         |    |            |         |    |       |         |    |
| Norman Wells                    | N/Av | N/Av             |    | N/Av   | N/Av   |    | N/Av  | N/Av    |    | 2    | 10,000  |    | 1          | 4,000   |    | 3     | 14,000  |    |
|                                 |      |                  |    |        |        |    |       |         |    | 1    | NS      |    | -          | -       |    | 1     | NS      |    |
| Colville Lake                   | 9    | 4,990            |    | 2      | 1,500  |    | 11    | 6,490   |    | -    | -       |    | -          | -       |    | -     | -       |    |
| Fort Franklin                   | 1    | 2,500            |    | 4      | 12,000 |    | 5     | 14,500  |    | 2    | 15,000  |    | 1          | 12,000  |    | 3     | 27,000  |    |
| Fort Good Hope                  | 12   | 17,089           |    | 1      | 300    |    | 13    | 17,389  |    | 1    | 10,000  |    | -          | -       |    | 1     | 10,000  |    |
| Fort Norman                     | -    | -                |    | 2      | 7,000  |    | 2     | 7,000   |    | 2    | 20,000  |    | 2          | 7,000   |    | 4     | 27,000  |    |
| Total Central Region            | 22   | 24,579           |    | 9      | 20,800 |    | 31    | 45,379  |    | 7    | 55,000  |    | 4          | 23,000  |    | 11    | 78,000  |    |
|                                 | -    | -                |    | -      | -      |    | -     | -       |    | 1    | NS      |    | -          | -       |    | 1     | NS      |    |

1/ NS refers to persons for whom amounts of wages and salaries not obtained by survey.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, based on special computer run giving count of occupation, by employers, by total wages and salaries earned.



## APPENDIX 12 (cont'd)

## NUMBER OF PERSONS EMPLOYED AND TOTAL EARNINGS BY EMPLOYER, MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## FEDERAL GOVERNMENT

|                               | Male |         |  | Native |                  |  | Total |         |  | Non-Native |           |  | Total |           |  |
|-------------------------------|------|---------|--|--------|------------------|--|-------|---------|--|------------|-----------|--|-------|-----------|--|
|                               | No.  |         |  | Female |                  |  | No.   |         |  | No.        |           |  | No.   |           |  |
|                               | \$   |         |  | \$     |                  |  | \$    |         |  | \$         |           |  | \$    |           |  |
| <u>Upper Mackenzie Region</u> |      |         |  |        |                  |  |       |         |  |            |           |  |       |           |  |
| Fort Simpson                  | 15   | 75,166  |  | 6      | 4,298            |  | 21    | 79,464  |  | 15         | 116,791   |  | 9     | 1,300     |  |
|                               | -    | -       |  | 1      | NS <sup>1/</sup> |  | 1     | NS      |  | 1          | NS        |  | 7     | NS        |  |
| Fort Liard                    | 1    | 6,500   |  | -      | -                |  | 1     | 6,500   |  | 1          | 10,000    |  | 1     | 1,980     |  |
| Fort Providence               | 8    | 27,100  |  | 1      | 300              |  | 9     | 27,400  |  | -          | -         |  | -     | -         |  |
| Fort Wrigley                  | 15   | 15,209  |  | -      | -                |  | 15    | 15,209  |  | 1          | 10,000    |  | -     | -         |  |
| Jean Marie River              | 1    | 3,600   |  | -      | -                |  | 1     | 3,600   |  | -          | -         |  | -     | -         |  |
| Nahanni Butte                 |      |         |  |        |                  |  |       |         |  |            |           |  |       |           |  |
| Trout Lake                    |      |         |  |        |                  |  |       |         |  |            |           |  |       |           |  |
| Hay River                     | 29   | 67,832  |  | 5      | 12,840           |  | 34    | 80,672  |  | 71         | 547,800   |  | 51    | 118,142   |  |
|                               | 3    | NS      |  | 2      | NS               |  | 5     | NS      |  | 3          | NS        |  | 7     | NS        |  |
| Total Upper Region            | 69   | 195,407 |  | 12     | 17,438           |  | 81    | 212,845 |  | 88         | 684,591   |  | 61    | 121,422   |  |
|                               | 3    | NS      |  | 3      | NS               |  | 6     | NS      |  | 4          | NS        |  | 14    | NS        |  |
| Total Pipeline Corridor       | 186  | 497,646 |  | 47     | 97,488           |  | 233   | 595,134 |  | 175        | 1,411,548 |  | 643   | 404,418   |  |
|                               | 9    | NS      |  | 7      | NS               |  | 16    | NS      |  | 8          | NS        |  | 15    | NS        |  |
| Yellowknife                   | 26   | 80,456  |  | 4      | 12,000           |  | 30    | 92,456  |  | 118        | 896,166   |  | 111   | 446,878   |  |
|                               | 3    | NS      |  | -      | -                |  | 3     | NS      |  | 3          | NS        |  | -     | -         |  |
| Rest of District              | 60   | 219,356 |  | 61     | 80,275           |  | 121   | 299,631 |  | 206        | 1,578,843 |  | 153   | 593,503   |  |
|                               | 7    | NS      |  | 3      | NS               |  | 10    | NS      |  | 9          | NS        |  | 2     | NS        |  |
| Total Remainder               | 86   | 299,812 |  | 65     | 92,275           |  | 151   | 392,087 |  | 324        | 2,475,009 |  | 264   | 1,040,381 |  |
|                               | 10   | NS      |  | 3      | NS               |  | 13    | NS      |  | 12         | NS        |  | 2     | NS        |  |
| Total Mackenzie District      | 272  | 797,458 |  | 112    | 189,763          |  | 384   | 987,221 |  | 499        | 3,886,557 |  | 379   | 1,444,799 |  |
|                               | 19   | NS      |  | 10     | NS               |  | 29    | NS      |  | 20         | NS        |  | 17    | NS        |  |

<sup>1/</sup> NS refers to persons for whom amounts of wages and salaries not obtained by survey.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970.

## APPENDIX 12 (cont'd)

## NUMBER OF PERSONS EMPLOYED AND TOTAL EARNINGS BY EMPLOYER, MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## N.W.T. GOVERNMENT

|                                 | Male |                  |      | Native |              |      | Total |              |     | Non-Native |              |         | Total |              |     |
|---------------------------------|------|------------------|------|--------|--------------|------|-------|--------------|-----|------------|--------------|---------|-------|--------------|-----|
|                                 |      |                  |      | Female |              |      |       |              |     | Female     |              |         |       |              |     |
|                                 | No.  | Earned<br>\$     | No.  | No.    | Earned<br>\$ | No.  | No.   | Earned<br>\$ | No. | No.        | Earned<br>\$ | No.     | No.   | Earned<br>\$ | No. |
| <u>Lower Mackenzie Region</u>   |      |                  |      |        |              |      |       |              |     |            |              |         |       |              |     |
| Inuvik                          | 31   | 168,090          | 6    | 6      | 18,860       | 37   | 37    | 186,950      | 47  | 421,720    | 51           | 341,575 | 98    | 763,295      | 98  |
|                                 | 1    | NS <sup>1/</sup> | 2    | 2      | NS           | 3    | 3     | NS           | 1   | NS         | 1            | NS      | 2     | NS           | 2   |
| Aklavik                         | 20   | 72,696           | 16   | 16     | 45,446       | 36   | 36    | 118,142      | 8   | 78,093     | 9            | 42,385  | 17    | 120,478      | 17  |
|                                 | 1    | NS               | -    | -      | -            | 1    | 1     | NS           | -   | -          | -            | -       | -     | -            | -   |
| Arctic Red River                | 3    | 14,400           | -    | -      | -            | 3    | 3     | 14,400       | -   | -          | -            | -       | -     | -            | -   |
| Fort McPherson                  | 7    | 24,504           | 8    | 8      | 32,564       | 15   | 15    | 57,068       | 3   | 30,000     | 4            | 28,400  | 7     | 58,400       | 7   |
|                                 | 1    | NS               | -    | -      | -            | 1    | 1     | NS           | -   | -          | -            | -       | -     | -            | -   |
| Tuktoyaktuk                     | 29   | 96,310           | 5    | 5      | 6,514        | 34   | 34    | 102,824      | -   | -          | -            | -       | -     | -            | -   |
| Total Lower Region              | 70   | 376,000          | 35   | 35     | 103,384      | 105  | 105   | 479,384      | 58  | 529,813    | 64           | 412,360 | 122   | 942,173      | 122 |
|                                 | 3    |                  | 2    | 2      |              | 5    | 5     |              | 1   |            | 1            |         | 2     |              | 2   |
| <u>Central Mackenzie Region</u> |      |                  |      |        |              |      |       |              |     |            |              |         |       |              |     |
| Norman Wells                    | N/Av | N/Av             | N/Av | N/Av   | N/Av         | N/Av | N/Av  | N/Av         | 1   | -          | 1            | 500     | 1     | 500          | 1   |
| Colville Lake                   | 1    | 350              | -    | -      | -            | 1    | 1     | 350          | -   | -          | -            | -       | -     | -            | -   |
| Fort Franklin                   | 12   | 26,000           | 6    | 6      | 5,850        | 18   | 18    | 31,850       | 5   | 41,200     | 3            | 12,800  | 8     | 54,000       | 8   |
| Fort Good Hope                  | 5    | 18,200           | 4    | 4      | 7,912        | 9    | 9     | 26,112       | 3   | 24,000     | 2            | 13,240  | 5     | 37,240       | 5   |
| Fort Norman                     | 18   | 57,460           | 1    | 1      | 400          | 19   | 19    | 57,860       | 7   | 45,050     | 1            | 10,000  | 8     | 55,050       | 8   |
| Total Central Region            | 36   | 102,010          | 11   | 11     | 14,162       | 47   | 47    | 116,172      | 15  | 110,250    | 7            | 36,540  | 22    | 146,790      | 22  |

<sup>1/</sup> NS refers to persons for whom amounts of wages and salaries not obtained by survey.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970.

## APPENDIX 12 (cont'd)

## NUMBER OF PERSONS EMPLOYED AND TOTAL EARNINGS BY EMPLOYER, MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## N.W.T. GOVERNMENT

|                               | Native |              |       | Non-Native       |              |       | Total     |              |           |
|-------------------------------|--------|--------------|-------|------------------|--------------|-------|-----------|--------------|-----------|
|                               | Male   |              | Total | Male             |              | Total | Female    |              | Total     |
|                               | No.    | Earned<br>\$ |       | No.              | Earned<br>\$ |       | No.       | Earned<br>\$ |           |
| <u>Upper Mackenzie Region</u> |        |              |       |                  |              |       |           |              |           |
| Fort Simpson                  | 8      | 31,393       | 4     | 12,806           | 44,199       | 4     | 36,000    | 7            | 44,800    |
|                               | -      | -            | 1     | NS <sup>1/</sup> | NS           | -     | -         | -            | -         |
| Fort Liard                    | 6      | 20,886       | 2     | 5,100            | 25,986       | 1     | 10,000    | -            | 10,000    |
| Fort Providence               | 5      | 14,950       | -     | -                | 14,950       | -     | -         | -            | -         |
| Fort Wrigley                  | 3      | 7,200        | 1     | 420              | 7,620        | 3     | 25,500    | 1            | 5,125     |
| Jean Marie River              | 4      | 350          | -     | -                | 350          | -     | -         | -            | -         |
|                               | 2      | NS           | -     | -                | NS           | -     | -         | -            | -         |
| Nahanni Butte                 |        |              |       |                  |              |       |           |              |           |
| Trout Lake                    |        |              |       |                  |              |       |           |              |           |
| Hay River                     | 7      | 34,900       | 7     | 26,288           | 61,188       | 45    | 359,190   | 39           | 151,306   |
|                               | -      | -            | -     | -                | -            | 2     | NS        | 4            | NS        |
| <u>Total Upper Region</u>     | 33     | 109,679      | 14    | 44,614           | 154,293      | 53    | 430,690   | 47           | 201,231   |
|                               | 2      | NS           | 1     | NS               | NS           | 2     | NS        | 4            | NS        |
| Total Pipeline Corridor       | 139    | 587,689      | 60    | 162,160          | 749,849      | 126   | 1,070,753 | 118          | 650,131   |
|                               | 5      | NS           | 3     | NS               | NS           | 3     | NS        | 5            | NS        |
| Yellowknife (and village)     | 21     | 113,290      | 17    | 59,445           | 172,735      | 237   | 2,021,711 | 185          | 844,135   |
|                               | -      | -            | 1     | NS               | NS           | -     | -         | 2            | NS        |
| Rest of District              | 158    | 375,024      | 41    | 112,747          | 487,771      | 143   | 1,034,673 | 105          | 458,254   |
|                               | 7      | NS           | 2     | NS               | NS           | 7     | NS        | 4            | NS        |
| Total Remainder               | 179    | 488,314      | 58    | 172,192          | 660,506      | 380   | 3,056,384 | 290          | 1,302,389 |
|                               | 7      | NS           | 3     | NS               | NS           | 7     | NS        | 6            | NS        |
| Total Mackenzie District      | 318    | 1,076,003    | 118   | 334,352          | 1,410,355    | 506   | 4,127,137 | 408          | 1,952,520 |
|                               | 12     | NS           | 6     | NS               | NS           | 10    | NS        | 11           | NS        |

<sup>1/</sup> NS refers to persons for whom amounts of wages and salaries not obtained by survey.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970.

APPENDIX 12 (cont'd)  
NUMBER OF PERSONS EMPLOYED AND TOTAL EARNINGS BY EMPLOYER, MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

|                                 | PRIVATE EMPLOYERS |               |          |               |           |               |           |               |          |               |           |               |
|---------------------------------|-------------------|---------------|----------|---------------|-----------|---------------|-----------|---------------|----------|---------------|-----------|---------------|
|                                 | Native            |               |          | Total         |           |               | Male      |               |          | Non-Native    |           |               |
|                                 | Female            |               |          |               |           |               |           |               |          | Female        |           |               |
|                                 | No.               | Earned        | \$       | No.           | Earned    | \$            | No.       | Earned        | \$       | No.           | Earned    | \$            |
| <u>Lower Mackenzie Region</u>   |                   |               |          |               |           |               |           |               |          |               |           |               |
| Inuvik                          | 62<br>7           | 223,380<br>NS | 36<br>7  | 54,918<br>NS  | 98<br>14  | 278,298<br>NS | 103<br>20 | 511,072<br>NS | 47<br>10 | 117,917<br>NS | 150<br>30 | 628,989<br>NS |
| Aklavik                         | 31<br>1           | 59,062<br>NS  | 36<br>-  | 43,266<br>-   | 67<br>1   | 102,328<br>NS | 5<br>3    | 4,800<br>NS   | 1<br>-   | 200<br>-      | 6<br>3    | 5,000<br>NS   |
| Arctic Red River                | 14                | 55,185        | 3        | 2,700         | 17        | 57,885        | -         | -             | -        | -             | -         | -             |
| Fort McPherson                  | 35                | 53,199        | 8        | 16,034        | 43        | 69,233        | 2         | 5,800         | 1        | 720           | 3         | 6,520         |
| Tuktoyaktuk                     | 44<br>2           | 98,084<br>NS  | 32<br>1  | 38,837<br>NS  | 76<br>3   | 136,921<br>NS | -<br>-    | -<br>-        | -<br>-   | -<br>-        | -<br>-    | -<br>-        |
| Total Lower Region              | 186<br>8          | 488,910<br>NS | 115<br>7 | 155,755<br>NS | 301<br>15 | 644,665<br>NS | 110<br>23 | 521,672<br>NS | 49<br>10 | 118,837<br>NS | 159<br>33 | 640,509<br>NS |
| <u>Central Mackenzie Region</u> |                   |               |          |               |           |               |           |               |          |               |           |               |
| Norman Wells                    | 1<br>-            | 10,000<br>-   | -<br>-   | -<br>-        | 1<br>-    | 10,000<br>-   | 30<br>2   | 243,500<br>NS | 9<br>1   | 22,258<br>NS  | 39<br>3   | 265,758<br>NS |
| Colville Lake                   | 5                 | 4,650         | 1        | 300           | 6         | 4,950         | -         | -             | -        | -             | -         | -             |
| Fort Franklin                   | 30<br>2           | 35,850<br>NS  | 11<br>4  | 6,600<br>NS   | 41<br>6   | 42,450<br>NS  | 5<br>2    | 16,000<br>NS  | 2<br>1   | 2,500<br>NS   | 7<br>3    | 18,500<br>NS  |
| Fort Good Hope                  | 19<br>-           | 37,616<br>-   | 2<br>-   | 375<br>-      | 21<br>-   | 37,991<br>-   | 2<br>1    | 5,000<br>NS   | 3<br>1   | 4,100<br>NS   | 5<br>2    | 9,100<br>NS   |
| Fort Norman                     | 6<br>-            | 32,600<br>-   | 4<br>-   | 6,580<br>-    | 10<br>-   | 39,180<br>-   | 3<br>2    | 825<br>NS     | 1<br>-   | 3,000<br>-    | 4<br>2    | 3,825<br>NS   |
| Total Central Region            | 61<br>2           | 120,716<br>NS | 18<br>4  | 13,855<br>NS  | 79<br>6   | 134,571<br>NS | 40<br>7   | 265,325<br>NS | 15<br>3  | 31,858<br>NS  | 55<br>10  | 297,183<br>NS |

## APPENDIX 12 (cont'd)

## NUMBER OF PERSONS EMPLOYED AND TOTAL EARNINGS BY EMPLOYER, MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

## PRIVATE EMPLOYERS

|                           | Male |           |    | Native |         |    | Total |           |    | Non-Native |           |    | Total |            |    |
|---------------------------|------|-----------|----|--------|---------|----|-------|-----------|----|------------|-----------|----|-------|------------|----|
|                           |      |           |    |        |         |    |       |           |    |            |           |    |       |            |    |
|                           | No.  | Earned    | \$ | No.    | Earned  | \$ | No.   | Earned    | \$ | No.        | Earned    | \$ | No.   | Earned     | \$ |
| Upper Mackenzie Region    |      |           |    |        |         |    |       |           |    |            |           |    |       |            |    |
| Fort Simpson              | 21   | 21,905    |    | 8      | 9,461   |    | 29    | 31,366    |    | 5          | 13,250    |    | 13    | 58,950     |    |
|                           | 5    | NS        |    | 1      | NS      |    | 6     | NS        |    | -          | -         |    | 2     | NS         |    |
| Fort Liard                | 1    | 5,400     |    | -      | -       |    | 1     | 5,400     |    | 1          | 8,800     |    | 3     | 16,700     |    |
| Fort Providence           | 17   | 33,502    |    | 7      | 8,943   |    | 24    | 42,445    |    | -          | -         |    | -     | -          |    |
| Fort Wrigley              | 5    | 5,500     |    | 2      | 200     |    | 7     | 5,700     |    | 1          | 900       |    | 2     | 5,400      |    |
|                           | 2    | NS        |    | -      | -       |    | 2     | NS        |    | -          | -         |    | -     | -          |    |
| Jean Marie River          | 1    | NS        |    | 1      | NS      |    | 2     | NS        |    | -          | -         |    | -     | -          |    |
|                           | 1    | NS        |    | 1      | NS      |    | 2     | NS        |    | -          | -         |    | -     | -          |    |
| Nahanni Butte             | 6    | 7,900     |    | -      | -       |    | 6     | 7,900     |    | -          | -         |    | -     | -          |    |
| Trout Lake                |      |           |    |        |         |    |       |           |    |            |           |    |       |            |    |
| Hay River                 | 46   | 93,835    |    | 22     | 21,307  |    | 68    | 115,142   |    | 92         | 194,155   |    | 228   | 872,570    |    |
|                           | 11   | NS        |    | 8      | NS      |    | 19    | NS        |    | 13         | NS        |    | 36    | NS         |    |
| Total Upper Region        | 97   | 168,042   |    | 40     | 39,911  |    | 137   | 207,953   |    | 99         | 217,105   |    | 246   | 953,620    |    |
|                           | 19   | NS        |    | 10     | NS      |    | 29    | NS        |    | 13         | NS        |    | 38    | NS         |    |
| Total Pipeline Corridor   | 344  | 777,668   |    | 173    | 209,521 |    | 517   | 987,189   |    | 163        | 367,800   |    | 460   | 1,891,312  |    |
|                           | 29   | NS        |    | 21     | NS      |    | 50    | NS        |    | 26         | NS        |    | 81    | NS         |    |
| Yellowknife (and village) | 77   | 298,512   |    | 31     | 69,770  |    | 108   | 368,282   |    | 338        | 1,010,903 |    | 1,194 | 6,727,565  |    |
|                           | 3    | NS        |    | 2      | NS      |    | 5     | NS        |    | 11         | NS        |    | 50    | NS         |    |
| Rest of District          | 132  | 206,712   |    | 82     | 95,451  |    | 214   | 302,163   |    | 144        | 233,274   |    | 531   | 2,514,216  |    |
|                           | 31   | NS        |    | 6      | NS      |    | 37    | NS        |    | 20         | NS        |    | 31    | NS         |    |
| Total Remainder           | 209  | 505,224   |    | 113    | 165,221 |    | 322   | 670,445   |    | 482        | 1,244,177 |    | 1,725 | 9,241,781  |    |
|                           | 34   | NS        |    | 8      | NS      |    | 42    | NS        |    | 31         | NS        |    | 81    | NS         |    |
| Total Mackenzie District  | 553  | 1,282,892 |    | 286    | 374,742 |    | 839   | 1,657,634 |    | 645        | 1,611,977 |    | 2,185 | 11,133,093 |    |
|                           | 63   | NS        |    | 29     | NS      |    | 92    | NS        |    | 57         | NS        |    | 162   | NS         |    |

1/ NS refers to persons for whom amounts of wages and salaries not obtained by survey.

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970.



APPENDIX 12 (cont'd)  
 NUMBER OF PERSONS EMPLOYED AND TOTAL EARNINGS BY EMPLOYER, MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

| NUMBER OF PERSONS EMPLOYED AND TOTAL EARNINGS OF EMPLOYEES 1/ |        |           |        |           |            |           |        |           |       |           |        |           |       |           |
|---|--------|-----------|--------|-----------|------------|-----------|--------|-----------|-------|-----------|--------|-----------|-------|-----------|
| SELF-EMPLOYED   |        |           |        |           |            |           |        |           |       |           |        |           |       |           |
|   | Native |           |        |           | Non-Native |           |        |           | Total |           |        |           |       |           |
|   | Male   |           | Female |           | Male       |           | Female |           | Male  |           | Female |           | Total |           |
|   | No.    | Earned \$ | No.    | Earned \$ | No.        | Earned \$ | No.    | Earned \$ | No.   | Earned \$ | No.    | Earned \$ | No.   | Earned \$ |
| Lower Mackenzie Region  |        |           |        |           |            |           |        |           |       |           |        |           |       |           |
| Inuvik  | 24     | 14,000    | 5      | 3,800     | 29         | 17,800    | 10     | 6,000     | 2     | NS        | 12     | 6,000     | 2     | NS        |
|   | 1      | NS2/      | -      | -         | 1          | NS        | 9      | NS        | 2     | NS        | 11     | NS        | 2     | NS        |
| Aklavik   | 10     | 3,700     | 8      | 260       | 18         | 3,960     | 5      | 10,000    | -     | -         | 5      | 10,000    | -     | -         |
|   | 2      | NS        | 6      | NS        | 8          | NS        | 2      | NS        | -     | -         | 2      | NS        | -     | -         |
| Arctic Red River  | 9      | 6,250     | -      | -         | 9          | 6,250     | -      | -         | -     | -         | -      | -         | -     | -         |
| Fort McPherson  | 11     | 13,229    | 1      | NS        | 12         | 13,229    | -      | -         | -     | -         | -      | -         | -     | -         |
|   | -      | -         | 1      | NS        | -          | NS        | -      | -         | -     | -         | -      | -         | -     | -         |
| Tuktoyaktuk   | 6      | 765       | 2      | NS        | 8          | 765       | -      | -         | -     | -         | -      | -         | -     | -         |
|   | 5      | NS        | 2      | NS        | 7          | NS        | -      | -         | -     | -         | -      | -         | -     | -         |
| Total Lower Region  | 60     | 37,944    | 16     | 4,060     | 76         | 42,004    | 15     | 16,000    | 2     | NS        | 17     | 16,000    | 2     | NS        |
|   | 8      | NS        | 9      | NS        | 17         | NS        | 11     | NS        | 2     | NS        | 13     | NS        | 2     | NS        |
| Central Mackenzie Region                                      |        |           |        |           |            |           |        |           |       |           |        |           |       |           |
| Norman Wells  | -      | -         | -      | -         | -          | -         | -      | -         | -     | -         | -      | -         | -     | -         |
| Colville Lake   | 2      | 3,000     | 1      | NS        | 3          | 3,000     | -      | -         | -     | -         | -      | -         | -     | -         |
|   | -      | -         | 1      | NS        | 1          | NS        | -      | -         | -     | -         | -      | -         | -     | -         |
| Fort Franklin   | 23     | 9,300     | 3      | NS        | 26         | 9,300     | 2      | 18,000    | -     | -         | 2      | 18,000    | -     | -         |
|   | 1      | NS        | 3      | NS        | 4          | NS        | -      | -         | -     | -         | -      | -         | -     | -         |
| Fort Good Hope  | 5      | NS        | -      | -         | 5          | NS        | -      | -         | -     | -         | -      | -         | -     | -         |
|   | 5      | NS        | -      | -         | 5          | NS        | -      | -         | -     | -         | -      | -         | -     | -         |
| Fort Norman   | 20     | 13,425    | 7      | NS        | 27         | 13,425    | -      | -         | -     | -         | -      | -         | -     | -         |
|   | 1      | NS        | 7      | NS        | 8          | NS        | -      | -         | -     | -         | -      | -         | -     | -         |
| Total Central Region  | 50     | 25,725    | 11     | NS        | 61         | 25,725    | 2      | 18,000    | -     | -         | 2      | 18,000    | -     | -         |
|   | 7      | NS        | 11     | NS        | 18         | NS        | -      | -         | -     | -         | -      | -         | -     | -         |

<sup>1/</sup> Excludes those hunting, trapping, fishing.

<sup>2/</sup> NS refers to persons for whom amounts of wages and salaries not obtained by survey.

Source: DIAND Mackenzie Manpower Survey for October 1, 1969 - September 30, 1970.

## APPENDIX 12 (cont'd)

## NUMBER OF PERSONS EMPLOYED AND TOTAL EARNINGS BY EMPLOYER, MACKENZIE IMPACT CORRIDOR SETTLEMENTS, N.W.T.

|  | SELF-EMPLOYED <sup>1/</sup> |                  |              |        |       |                       | Non-Native |    |                       |        |         |                       |        |
|--|-----------------------------|------------------|--------------|--------|-------|-----------------------|------------|----|-----------------------|--------|---------|-----------------------|--------|
|  | Male                        |                  |              | Native |       |                       | Male       |    |                       | Female |         |                       |        |
|  | No.                         |                  | Earned<br>\$ | No.    |       | Total<br>Earned<br>\$ | No.        |    | Total<br>Earned<br>\$ | No.    |         | Total<br>Earned<br>\$ |        |
|  |                             |                  |              |        |       |                       |            |    |                       |        |         |                       |        |
| Upper Mackenzie Region   |                             |                  |              |        |       |                       |            |    |                       |        |         |                       |        |
| Fort Simpson   | 3                           | NS <sup>2/</sup> |              | 3      | NS    |                       | 6          | NS |                       | -      | -       | -                     | -      |
|  | 3                           | NS               |              | 3      | NS    |                       | 6          | NS |                       | -      | -       | -                     | -      |
| Fort Liard   | 62                          | 18,220           |              | 2      | NS    | 18,220                |            |    |                       | -      | -       | -                     | -      |
|  | 1                           | NS               |              | 2      | NS    |                       | 3          | NS |                       | -      | -       | -                     | -      |
| Fort Providence  | 19                          | 2,600            |              | -      | -     | 2,600                 |            |    |                       | -      | -       | -                     | -      |
|  | 1                           | NS               |              | -      | -     |                       | 1          | NS |                       | -      | -       | -                     | -      |
| Fort Wrigley   | 1                           | NS               |              | 1      | 1,700 | 1,700                 |            |    |                       | -      | -       | -                     | -      |
|  | 1                           | NS               |              | -      | -     |                       | 1          | NS |                       | -      | -       | -                     | -      |
| Jean Marie River   | 5                           | 424              |              | -      | -     | 424                   |            |    |                       | -      | -       | -                     | -      |
| Nahanni Butte  | 8                           | 3,000            |              | -      | -     | 3,000                 |            |    |                       | -      | -       | -                     | -      |
|  | 6                           | NS               |              | -      | -     |                       | 6          | NS |                       | -      | -       | -                     | -      |
| Trout Lake   | 10                          | NS               |              | -      | -     |                       | 10         | NS |                       | -      | -       | -                     | -      |
|  | 10                          | NS               |              | -      | -     |                       | 10         | NS |                       | -      | -       | -                     | -      |
| Hay River  | 17                          | 3,000            |              | -      | -     | 3,000                 |            |    |                       | 47     | 33,600  | 3                     | 4,500  |
|  | 7                           | NS               |              | -      | -     |                       | 7          | NS |                       | 29     | NS      | -                     | -      |
| Total Upper Region   | 125                         | 27,244           |              | 6      | 1,700 | 28,944                |            |    |                       | 47     | 33,600  | 3                     | 4,500  |
|  | 29                          | NS               |              | 5      | NS    |                       | 34         | NS |                       | 29     | NS      | -                     | -      |
| Total Pipeline Corridor  | 235                         | 90,913           |              | 33     | 5,760 | 96,673                |            |    |                       | 64     | 67,600  | 5                     | 4,500  |
|  | 44                          | NS               |              | 25     | NS    |                       | 69         | NS |                       | 40     | NS      | 2                     | NS     |
| Yellowknife (and village)  | 4                           | 2,000            |              | 1      | 2,000 | 4,000                 |            |    |                       | 73     | 112,500 | 15                    | 21,240 |
|  | 3                           | NS               |              | -      | -     |                       | 3          | NS |                       | 21     | NS      | 7                     | NS     |
| Rest of District   | 123                         | 17,207           |              | 12     | 700   | 17,907                |            |    |                       | 19     | 51,845  | 4                     | 980    |
|  | 63                          | NS               |              | 3      | NS    |                       | 66         | NS |                       | 9      | NS      | 3                     | NS     |
| Total Remainder  | 127                         | 19,207           |              | 13     | 2,700 | 21,907                |            |    |                       | 92     | 164,345 | 19                    | 22,220 |
|  | 66                          | NS               |              | 3      | NS    |                       | 69         | NS |                       | 30     | NS      | 10                    | NS     |
| Total Mackenzie District   | 362                         | 110,120          |              | 46     | 8,460 | 118,580               |            |    |                       | 156    | 231,945 | 24                    | 26,720 |
|  | 110                         | NS               |              | 28     | NS    |                       | 138        | NS |                       | 70     | NS      | 12                    | NS     |
| 1/ Excludes those hunting, trapping, Fishing. 2/ NS refers to persons for whom amounts of wages and salaries not |                             |                  |              |        |       |                       |            |    |                       |        |         |                       |        |

1/ Excludes those hunting, trapping, Fishing. 2/ NS refers to persons for whom amounts of wages and salaries not obtained by survey.

Source: DIAND Mackenzie Manpower Survey for October 1, 1969 - September 30, 1970.

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Part 2

Potential of Territorial Labour Force  
Supply to Meet Pipeline Labour Demand





## Part 2

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## CHAPTER 1

INTRODUCTIONGeneral Considerations

Pipeline construction and ancillary activities will create a large labour demand in the Mackenzie Valley. Government plans call for the recruitment of as many territorial residents as possible in the direct pipeline work force, as well as in related and supportive activities. The success of programs to actively involve northern residents will depend on a number of factors, e.g., location of potential workers; assessment of their qualifications for pipeline and related work; of their willingness and abilities to take such work; development of mutually satisfactory (to industry, government and territorial residents) programs for training and re-location of territorial residents involved with pipeline work; development of plans to re-integrate into local community work forces those territorial residents who cannot or who do not wish to continue in pipeline work.

There will be a number of problems to overcome in efforts to involve territorial residents to the maximum extent feasible in work on the pipeline. Solving these problems, which are discussed in appropriate parts of the impact study, will require concentrated efforts by both the federal and territorial governments. One basic and immediate problem facing the responsible authorities will be that of fielding a large enough work force - in sheer numbers - to meet any targets or quota for inclusion of territorial residents in the pipeline work force. The next pressing problem will be that of ensuring that territorial residents, particularly native residents, are adequately qualified for pipeline work, or that they may have the opportunities to become qualified through such means as special training situations, on-the-job training experience, and basic training programs for the inexperienced potential work force.

Purpose and Approach

Because government authorities and territorial residents themselves are concerned with involvement in pipeline work, it is necessary to examine the potential of the local territorial labour force. In Part 1 of Volume 6, the population and labour force of the Mackenzie Impact Corridor are described in terms of their basic characteristics, on the basis of results of the D.I.A.N.D. Mackenzie Manpower Survey. This description of the population covers a period of time in which no significant economic development activities occurred in the Mackenzie Valley, i.e., October, 1969 - September, 1970. Conditions described for this period have been regarded as representative of conditions prevailing for the base case or pre-pipeline period, essentially an "as is" situation. The material in Part 1, Volume 6, together with the relevant parts of Volumes 4, 5 and 7<sup>1/</sup>, provide background information on which assumptions have been made concerning likely future developments resulting from pipeline construction.

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<sup>1/</sup>

Those parts pertaining to the non-pipeline situation.

The purpose of Part 2 of Volume 6 is to analyse the potential territorial labour supply, with emphasis on that of the Mackenzie Impact Corridor, in terms of the basic qualifications of the base case work force, and to determine what actions may be necessary to prepare territorial residents for active participation in pipeline construction work. No attempt is made to project labour supply, the numbers of workers likely to be available at any particular phase of the pipeline program, since this is done in Volume 7. Part 2 concentrates on pipeline work. No examination is made of projected labour requirements in other sectors, e.g., mining, business, industry, other than through examination of the local (Impact Corridor) labour force in some detail, with limited discussion of the labour supply picture elsewhere in the N.W.T.

#### Sources of Data

As in Part 1 of Volume 6, the primary source of data for analysis of the corridor labour force is the D.I.A.N.D. Mackenzie Manpower Survey. There are certain limitations to the survey data, as indicated in Chapter 1, Part 1. The chief limitation concerns coverage of the non-native population group. The survey covered only 41 per cent of the total non-native population of the corridor. Therefore, figures pertaining to non-native persons are used for qualitative comparison only and are not intended to represent actual numbers, qualifications and so forth.

The manpower survey covered approximately 87 per cent of the total native corridor population. While this is not full coverage, the quality of the information obtained has allowed more extensive use of these data than for the non-native group. Information obtained on respondents concerning occupations and training has, for the majority of those natives from whom specific responses were received, been verified and/or supplemented by information obtained from documents, paylists, training records, and similar sources. The native sample may thus be regarded as an accurate representation.

The primary source of data for pipeline labour requirements is Volume 2 of the impact study, "Relevant Aspects of Pipeline Construction and Operation in the Territories and Impact on Local Resources", specifically Part 2, "Requirements for Base Case and Alternative Mackenzie Valley Pipelines". Additional data have been drawn from background papers supportive to Volume 2. Volume 2 treats direct pipeline labour requirements as well as indirect, including transportation components. The latter are treated in detail in Volume 3, "Impact of Pipelines on Territorial Transportation Facilities, Resource Output and Industrial Development" (Part 2: "Pipeline Impact on Transport"). Part 2 of Volume 6 treats only labour supply in relation to pipeline work, and relies, therefore, on those transportation labour requirement data presented in Volume 2.

Ideally, assessment should be made of the labour supply in relation to all pipeline-related or pipeline-generated activities, including transportation. This has not been done in Volume 6, other than through presentation of a skills inventory of the population. From the latter it is possible to obtain an indication of the likely ability of the corridor labour force to fill transportation-related jobs on the basis of qualification or work experience, as well as other jobs in other sectors, e.g., mining, business, service, etc.



## CHAPTER 2

BASIC QUALIFICATIONS OF THE  
IMPACT CORRIDOR LABOUR FORCEIntroduction

In Volume 2, the total numbers of workers needed for each phase of pipeline construction and operation are given, along with the wide range of qualifications and relevant job experience required for various aspects of the project.<sup>1/</sup> Obviously, numbers of highly skilled workers, persons with advanced formal academic training, persons with specialized technical and trades training and those with much direct on-the-job pipeline construction experience will be required, as will many general workers, throughout the construction period. For the operation and maintenance phases, the numbers of workers required will be lower, but the skill levels possessed by those permanent operating personnel will be quite high. It is clear, however, that there will be large numbers of jobs, for varying lengths of time, for persons with relatively low levels of formal education, trades training, and direct pipeline work experience.

In assessing the potential of any group of workers to participate in a project such as construction of a pipeline, the job specifications must be known. Then the potential work force must be scrutinized in terms of basic education, skill development, and work experience. In the case of the pipeline, a portion of the work force will require work experience in pipeline construction work. Another portion will, however, be required to have only relevant work experience.

In Chapter 2, the basic qualifications of the corridor labour force are examined in general terms. Again, emphasis is placed on the basic qualifications of the native work force.<sup>2/</sup> In succeeding chapters, both the corridor labour force and the native labour force of the remainder of the N.W.T. are assessed in terms of the particular skill requirements of the actual pipeline construction project.

Background Education

The basic education of the native population of the corridor was analyzed in Chapter 2 of Part 1. From this analysis, it was determined that the native population overall, particularly in the age groups over 25 years of age, was essentially poorly educated. Only five per cent of native residents over 14 years of age had completed grades 10 or 11, only two per cent had attended grades 12 or 13 (Part 1, Chapter 2, Table 7).

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<sup>1/</sup> Volume 2, Part 2.

<sup>2/</sup> The majority of the resident non-native labour force in the corridor and throughout the N.W.T., is in a permanent employment situation - e.g., government. Only a small proportion would seek pipeline work. However, members of the non-native labour force in the North are far more mobile, far more able to seek - and find - work than are the native residents, most of whom will require assistance in one form or another to obtain work on the pipeline.



There is no noticeable difference between the level of basic education of the labour force and the over-14 population.

### Skill Training

In the mid-1950's, the federal government initiated an intensive program to expand education facilities throughout the N.W.T. and to develop programs which would provide education and training to territorial native residents who had formerly had very little exposure to it. While elementary schools were being built, programs were also launched for those beyond school age. The latter action was given considerable impetus by the construction of the DEWline. Many natives received trades training to enable them to participate in the construction and operation of the DEWline. Efforts have continued over the years to up-grade natives by means of vocational training.

For those native persons now between 25 to 30 years of age, the achievement of the necessary school grade levels for entrance to formal trades training programs was difficult. Many, lacking formal education, had little or no knowledge of or ability to use English and were thus limited in the types of skill training programs to which they might have access. The result has been that while numbers of individuals have learned their trades well and are quite proficient, they have been unable to obtain formal certification, and in most cases have been unable to receive full wages according to the prevailing rates for the particular trades. Nevertheless, these people comprise a large block of the experienced, semi-skilled northern native work force.

Over the past decade increasing numbers of young people have been entering the school system earlier, starting their formal education at an age at which they are more likely to adapt to new situations and to be able to progress at a reasonable rate through the school system. They have also been able to enter trades training courses with a better basic education, and thus obtain higher levels of qualification.

Unfortunately, while increasing numbers of reasonably well qualified young native people have been emerging from schools and training centers, many have been unable to practice their trades. For many, especially those who have preferred to remain near home, there have not been sufficient local jobs which could utilize their training and skills. Only a very small number of the total numbers of native persons who have received advanced training in various trades have chosen to work out of their home area or out of the North.

The largest single employer for natives in the N.W.T. has been government - the federal government until 1967, increasingly thereafter the territorial government. Public Service of Canada regulations have, however, played a part in determining how far a man might advance in his trade. If a person had no theoretical knowledge, or, more usually, was unable to express it orally or write it, he was invariably kept either as a labourer with no specific designation, or as a trademen's helper.

These persons quite often advanced to a level as high as receiving 85-95 per cent of the prevailing rate of pay for qualified tradesmen. There is no doubt that economically speaking, this situation has not materially affected or even bothered many people; the pay has been good, and the majority, particularly those over 30, have developed long work histories. It should also be pointed out that many "helpers" have become far better tradesmen than their white foremen from the south. However, in terms of economic development planning, or determining what possibilities exist for natives on projects such as the pipeline, this general lack of formal qualifications of the labour force over 25 years of age will present serious problems. For the younger people, another problem arises: that of not having had sufficient opportunity to practice their trade.

### Inventory of Selected Skills

The D.I.A.N.D. Northern Manpower Survey Program identified training courses taken by those respondents who reported having received training. From the variety of types of training taken, a short list has been prepared which comprises training assessed as being relevant to direct pipeline construction work, work in ancillary activities and additional work which might develop in corridor communities as a result of construction and operation of the pipeline. This list, giving codes and the courses, is presented as Table 1. In fact, it covers a wide variety of types of training and as such gives a good overall picture of the general skill levels of the population, particularly the native population.

Table 2<sup>1/</sup> presents a summary picture of the numbers of persons of both population groups who have taken the training courses listed in Table 1 for the Impact Corridor, the remainder of the Mackenzie District and (for natives only) the rest of the Northwest Territories.

The small numbers of natives who have achieved the higher levels of academic training, such as university level or professional level training requiring grade 12 as minimum qualification, is relatively easily explained in terms of present level of development of the North. What is definitely more serious to consider, particularly in view of the announced policies of placing the maximum possible number of native workers in pipeline construction and (later) maintenance and operation work, is the small number of natives with relevant experience in direct pipeline-related trades<sup>2/</sup>, particularly in skilled categories. The majority of those members of the corridor native population (and also of natives throughout the rest of the Northwest Territories) who have any degree of pipeline-related occupational experience are relegated to the

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<sup>1/</sup> A detailed summary for the corridor by region and settlement is presented as Appendix 3.

<sup>2/</sup> The training course most heavily represented is that of heavy duty equipment operator: 14.9 per cent of corridor natives taking courses received this training, as did 17.2 per cent of all N.W.T. natives who have reported taking training courses. The second highest number of persons have had carpentry training: 16.5 per cent in the corridor, 14.4 per cent in whole of the N.W.T.

Table 1  
CODE NUMBERS FOR TRAINING COURSES  
RELATED TO PIPELINE CONSTRUCTION

| <u>Code</u> | <u>Education &amp; Diploma Program</u> | <u>Code</u> | <u>Education &amp; Diploma Program</u> |
|-------------|--|-------------|--|
| 005         | Caretaker, Domestic Service            | 081         | Bookkeeping                            |
|             | Janitor                                | 083         | Captains' Certificate (ship)           |
| 006         | Carpentry                              | 087         | Machinist                              |
| 008         | Clerical                               | 088         | Refrigeration, Air                     |
| 009         | Commercial                             |             | conditioning                           |
| 012         | Diesel Operator, Power                 | 089         | Water and Sewage Treatment             |
|             | Plant                                  | 090         | Painter, Construction and              |
| 013         | Driver Training                        |             | Maintenance                            |
| 014         | Electrician, Construction,             | 094         | Gas Technology                         |
|             | Maintenance                            | 095         | Minerology                             |
| 015         | Fire fighting, control                 | 096         | Explosives, Blasting                   |
|             | safety                                 | 099         | General Vocational (varied)            |
| 020         | Heavy Duty Equip. Operator             | 102         | Bachelor of Arts                       |
| 021         | Lineman                                | 103         | Bachelor of Science                    |
| 022         | Marine Mechanics                       | 104         | Chartered Accountant                   |
| 023         | Mechanic, motor vehicle                | 105         | Registered Nurse                       |
| 024         | Mechanic, diesel, heavy                | 107         | Bachelor of Commerce                   |
|             | equipment                              | 118         | Draftsman                              |
| 025         | Nursing Aide, First Aid                | 119         | Business Administration                |
| 026         | Outboard Motor Repair                  | 120         | Public Health Nursing                  |
| 027         | Power Plant Operator                   | 121         | Other B.A. & B.Sc. levels              |
| 028         | Plumbing and Pipefitting               |             | in Physical Sciences                   |
| 029         | Practical Nurse                        | 124         | Engineering                            |
| 031         | Sheet Metal Worker                     | 129         | Law                                    |
| 033         | Oil Burner Mechanic                    | 133         | Civil Engineering (Diploma)            |
| 034         | Mechanic, n.e.s.*                      | 138         | Chart Surveyor (R.I.C.S.)              |
| 035         | Oil Well Drilling                      | 139         | Construction Management                |
| 037         | Surveying                              | 140         | Marine Mechanical Engineering          |
| 040         | Cooking                                | 141         | Nursing Science (degree)               |
| 045         | Public Health (community               | 201         | M. Sc.                                 |
|             | worker)                                | 202         | M.A.                                   |
| 047         | Lay Dispenser                          | 204         | Ph.D.                                  |
| 048         | Pilot Training                         | 208         | M.A., Public Administration            |
| 049         | Waitress                               | 315         | Hotel Management                       |
| 050         | Seaman                                 | 319         | Nursing Administration                 |
| 051         | Boat Building                          | 325         | Mining and Metallurgy                  |
| 052         | Police Training                        | 327         | Radar Communication                    |
| 054         | Electronics                            | 328         | Gas Fitter                             |
| 055         | Building Construction                  | 329         | Forms Design & Blueprint               |
| 056         | Mechanical Drawing                     |             | Reading                                |
| 060         | Stationary Engineer                    | 330         | Automotive Parts                       |
| 061         | Furnace Maintenance                    | 331         | Navigation (ship)                      |
| 064         | Telecommunications                     | 340         | Painting and Graphic Arts              |
| 065         | Aircraft Maintenance                   | 345         | Storeman (Material Management)         |
|             | (mechanic)                             | 350         | Legal Surveying                        |

|     |                             |     |                          |
|-----|-----------------------------|-----|--------------------------|
| 068 | Sawmill Operations          | 353 | Industrial Safety        |
| 072 | Welding                     | 355 | Business Law             |
| 073 | Lab Technician              | 358 | Mine Rescue              |
| 074 | Photography                 | 362 | Air Traffic Regulations  |
| 075 | Office Management           | 370 | Geology (not university) |
| 077 | Legal Administration (J.P.) |     |                          |
| 078 | Millwright                  |     |                          |
| 080 | Electrical Mechanics        |     |                          |

Source: DIAND Northern Manpower Survey.

\* n.e.s. - not elsewhere specified.



lower level skill classes of labour. Examination of the levels of training makes it clear that it will be difficult, at least initially to place large numbers of the local native residents, let alone those who live further from the pipeline route.

The general picture is not improved by examination of Table 3 which summarizes the numbers of those natives in the corridor and throughout the N.W.T. holding trade or journeyman's certificates. From the detailed picture presented in Appendix 2, it is evident that within the pipeline corridor area, there is a definite shortage of qualified, licensed tradesmen among the N.W.T. native population.

It should be remembered that the figures presented in the education summary and the training summary are, like much of the information on population and labour force contained in Volume 6, based on the manpower survey and cover a period over 1969-70. Increasing numbers of young native persons are leaving the school systems and training centers all the time, the majority with higher qualifications than those possessed by the present basic native work force. However, as spelled out clearly in Volume 2 and Volume 6, training and also experience requirements for most of the directly related pipeline work will be high. Therefore, the question to be answered is whether sufficient people can be found within the native population with the relevant background and training who might also be directed to some means of achieving the requisite experience levels before pipeline construction actually begins.



Table 2

SUMMARY INVENTORY OF NUMBERS OF PERSONS IN THE NORTHWEST TERRITORIES  
BY ETHNIC ORIGIN WHO HAVE TAKEN PIPELINE-RELATED TRAINING<sup>1/</sup>

| Code No. | Total Pipeline Corridor |            | Total Remainder of Mackenzie District |            | Total Mackenzie District |            | Rest of N.W.T. |            | Total N.W.T. |            |
|----------|-------------------------|------------|---------------------------------------|------------|--------------------------|------------|----------------|------------|--------------|------------|
|          | Native                  | Non-Native | Native                                | Non-Native | Native                   | Non-Native | Native         | Non-Native | Native       | Non-Native |
| 005      | 1                       | 0          | 0                                     | 2          | 1                        | 2          | 46             | 2          | 47           | 2          |
| 006      | 32                      | 5          | 16                                    | 36         | 48                       | 41         | 52             | 41         | 100          | 41         |
| 008      | 9                       | 42         | 10                                    | 122        | 19                       | 164        | 22             | 164        | 41           | 164        |
| 009      | 10                      | 64         | 18                                    | 256        | 28                       | 320        | 5              | 320        | 33           | 320        |
| 012      | 0                       | 1          | 3                                     | 2          | 3                        | 3          | 5              | 3          | 8            | 3          |
| 013      | 3                       | 0          | 0                                     | 4          | 3                        | 4          | 4              | 4          | 7            | 4          |
| 014      | 0                       | 13         | 8                                     | 64         | 8                        | 77         | 4              | 77         | 12           | 77         |
| 015      | 2                       | 5          | 1                                     | 13         | 3                        | 18         | 2              | 18         | 5            | 18         |
| 020      | 29                      | 2          | 18                                    | 19         | 47                       | 21         | 72             | 21         | 119          | 21         |
| 021      | 1                       | 5          | 1                                     | 4          | 2                        | 9          | 0              | 9          | 2            | 9          |
| 022      | 3                       | 1          | 0                                     | 1          | 3                        | 2          | 15             | 2          | 18           | 2          |
| 023      | 5                       | 21         | 6                                     | 52         | 11                       | 73         | 6              | 73         | 17           | 73         |
| 024      | 6                       | 15         | 4                                     | 25         | 10                       | 40         | 3              | 40         | 13           | 40         |
| 025      | 19                      | 47         | 17                                    | 83         | 36                       | 130        | 11             | 130        | 47           | 130        |
| 026      | 0                       | 0          | 1                                     | 2          | 1                        | 2          | 6              | 2          | 7            | 2          |
| 027      | 1                       | 1          | 2                                     | 0          | 3                        | 1          | 21             | 1          | 24           | 1          |
| 028      | 1                       | 7          | 2                                     | 14         | 3                        | 21         | 7              | 21         | 10           | 21         |
| 029      | 0                       | 5          | 1                                     | 6          | 1                        | 11         | 4              | 11         | 5            | 11         |
| 031      | 0                       | 1          | 2                                     | 7          | 2                        | 8          | 2              | 8          | 5            | 8          |
| 033      | 1                       | 1          | 0                                     | 0          | 1                        | 1          | 0              | 1          | 1            | 1          |
| 034      | 3                       | 8          | 5                                     | 38         | 8                        | 46         | 1              | 46         | 9            | 46         |
| 035      | 5                       | 0          | 1                                     | 1          | 6                        | 1          | 6              | 1          | 12           | 1          |
| 037      | 0                       | 2          | 1                                     | 8          | 1                        | 10         | 1              | 10         | 2            | 10         |
| 040      | 6                       | 12         | 10                                    | 21         | 16                       | 33         | 6              | 33         | 22           | 33         |
| 045      | 3                       | 1          | 2                                     | 2          | 5                        | 3          | 1              | 3          | 6            | 3          |
| 047      | 2                       | 0          | 3                                     | 1          | 5                        | 1          | 3              | 1          | 8            | 1          |
| 048      | 5                       | 21         | 5                                     | 59         | 10                       | 80         | 1              | 80         | 11           | 80         |
| 049      | 1                       | 1          | 0                                     | 1          | 1                        | 2          | 0              | 2          | 1            | 2          |

<sup>1/</sup> Code numbers refer to courses listed in Table 1, above, p. 2 - 10.

<sup>2/</sup> Information from DIAND Northern Manpower Surveys, information not available for non-natives.

<sup>3/</sup> Information on non-natives pertains only to those covered by the D.I.A.N.D. Mackenzie Manpower Survey, which provided sample coverage of only 41 per cent of the total non-native population of the Mackenzie Impact District. Information on the total Mackenzie District population is not available.

| Code No. | Total Pipeline Corridor |            | Total Remainder of Mackenzie District |            | Total Mackenzie District |            | Rest of N.W.T. |            | Total N.W.T. |            |
|----------|-------------------------|------------|---------------------------------------|------------|--------------------------|------------|----------------|------------|--------------|------------|
|          | Native                  | Non-Native | Native                                | Non-Native | Native                   | Non-Native | Native         | Non-Native | Native       | Non-Native |
| 050      | 2                       | 3          | 0                                     | 1          | 2                        | 4          | 0              | 2          | 2            | 4          |
| 051      | 10                      | 2          | 1                                     | 0          | 11                       | 2          | 0              | 11         | 11           | 2          |
| 052      | 0                       | 7          | 0                                     | 20         | 0                        | 27         | 0              | 0          | 0            | 27         |
| 054      | 4                       | 33         | 3                                     | 52         | 7                        | 85         | 0              | 7          | 7            | 85         |
| 055      | 2                       | 3          | 1                                     | 5          | 3                        | 8          | 0              | 3          | 3            | 8          |
| 056      | 0                       | 1          | 0                                     | 2          | 0                        | 3          | 0              | 0          | 0            | 3          |
| 060      | 1                       | 13         | 1                                     | 11         | 2                        | 24         | 0              | 2          | 2            | 24         |
| 061      | 6                       | 2          | 4                                     | 0          | 10                       | 2          | 0              | 10         | 10           | 2          |
| 064      | 4                       | 30         | 7                                     | 42         | 11                       | 72         | 0              | 11         | 11           | 72         |
| 065      | 0                       | 6          | 0                                     | 17         | 0                        | 23         | 0              | 0          | 0            | 23         |
| 068      | 1                       | 0          | 0                                     | 0          | 1                        | 0          | 0              | 1          | 1            | 0          |
| 072      | 6                       | 13         | 11                                    | 45         | 17                       | 58         | 0              | 17         | 17           | 58         |
| 073      | 0                       | 3          | 0                                     | 13         | 0                        | 16         | 0              | 0          | 0            | 16         |
| 074      | 0                       | 3          | 0                                     | 6          | 0                        | 9          | 0              | 0          | 0            | 9          |
| 075      | 0                       | 11         | 2                                     | 59         | 2                        | 70         | 0              | 2          | 2            | 70         |
| 077      | 0                       | 0          | 1                                     | 0          | 1                        | 0          | 0              | 1          | 1            | 0          |
| 078      | 0                       | 0          | 0                                     | 2          | 0                        | 2          | 0              | 0          | 0            | 2          |
| 080      | 0                       | 6          | 0                                     | 8          | 0                        | 14         | 0              | 0          | 0            | 14         |
| 081      | 3                       | 38         | 5                                     | 54         | 8                        | 92         | 0              | 8          | 8            | 92         |
| 083      | 0                       | 1          | 1                                     | 0          | 1                        | 1          | 0              | 1          | 1            | 1          |
| 087      | 0                       | 2          | 1                                     | 13         | 1                        | 15         | 0              | 1          | 1            | 15         |
| 088      | 0                       | 0          | 2                                     | 6          | 2                        | 6          | 0              | 2          | 2            | 6          |
| 089      | 0                       | 2          | 0                                     | 6          | 0                        | 8          | 0              | 0          | 0            | 8          |
| 090      | 0                       | 0          | 1                                     | 2          | 1                        | 2          | 0              | 1          | 1            | 2          |
| 094      | 0                       | 0          | 1                                     | 1          | 1                        | 1          | 0              | 1          | 1            | 1          |
| 095      | 0                       | 0          | 0                                     | 5          | 0                        | 5          | 0              | 0          | 0            | 5          |
| 096      | 1                       | 0          | 0                                     | 5          | 1                        | 5          | 0              | 1          | 1            | 5          |
| 099      | 0                       | 2          | 1                                     | 8          | 1                        | 10         | 0              | 1          | 1            | 10         |
| 102      | 2                       | 57         | 5                                     | 191        | 7                        | 248        | 0              | 7          | 7            | 248        |
| 103      | 0                       | 24         | 0                                     | 75         | 0                        | 99         | 0              | 0          | 0            | 99         |
| 104      | 0                       | 7          | 0                                     | 61         | 0                        | 68         | 0              | 0          | 0            | 68         |

Table 2 (cont'd)

| Code No. | Total Pipeline Corridor |            | Total Remainder of Mackenzie District |            | Total Mackenzie District |            | Rest of N.W.T. Native |            | Total N.W.T. Native Non-Native |            |
|----------|-------------------------|------------|---------------------------------------|------------|--------------------------|------------|-----------------------|------------|--------------------------------|------------|
|          | Native                  | Non-Native | Native                                | Non-Native | Native                   | Non-Native | Native                | Non-Native | Native                         | Non-Native |
| 105      | 1                       | 84         | 2                                     | 137        | 3                        | 221        | 0                     | 221        | 3                              | 221        |
| 107      | 0                       | 2          | 0                                     | 26         | 0                        | 28         | 0                     | 28         | 0                              | 28         |
| 118      | 0                       | 2          | 1                                     | 18         | 1                        | 20         | 0                     | 20         | 1                              | 20         |
| 119      | 1                       | 15         | 1                                     | 67         | 2                        | 82         | 0                     | 82         | 2                              | 82         |
| 120      | 0                       | 6          | 0                                     | 5          | 0                        | 11         | 1                     | 11         | 1                              | 11         |
| 121      | 0                       | 6          | 0                                     | 6          | 0                        | 12         | 0                     | 12         | 0                              | 12         |
| 124      | 1                       | 17         | 0                                     | 84         | 1                        | 101        | 0                     | 101        | 1                              | 101        |
| 129      | 0                       | 0          | 0                                     | 3          | 0                        | 3          | 0                     | 3          | 0                              | 3          |
| 133      | 0                       | 1          | 0                                     | 6          | 0                        | 7          | 0                     | 7          | 0                              | 7          |
| 138      | 0                       | 0          | 0                                     | 1          | 0                        | 1          | 0                     | 1          | 0                              | 1          |
| 139      | 0                       | 0          | 0                                     | 0          | 0                        | 0          | 0                     | 0          | 0                              | 0          |
| 140      | 0                       | 1          | 0                                     | 0          | 0                        | 1          | 0                     | 1          | 0                              | 1          |
| 141      | 0                       | 0          | 0                                     | 1          | 0                        | 1          | 0                     | 1          | 0                              | 1          |
| 201      | 0                       | 1          | 0                                     | 4          | 0                        | 5          | 0                     | 5          | 0                              | 5          |
| 202      | 0                       | 2          | 0                                     | 3          | 0                        | 5          | 0                     | 5          | 0                              | 5          |
| 204      | 0                       | 1          | 0                                     | 0          | 0                        | 1          | 0                     | 1          | 0                              | 1          |
| 208      | 0                       | 0          | 0                                     | 0          | 0                        | 0          | 0                     | 0          | 0                              | 0          |
| 315      | 0                       | 2          | 0                                     | 5          | 0                        | 7          | 0                     | 7          | 0                              | 7          |
| 319      | 0                       | 2          | 0                                     | 0          | 0                        | 2          | 0                     | 2          | 0                              | 2          |
| 325      | 0                       | 0          | 2                                     | 8          | 2                        | 8          | 0                     | 8          | 2                              | 8          |
| 327      | 0                       | 2          | 0                                     | 2          | 0                        | 4          | 0                     | 4          | 0                              | 4          |
| 328      | 1                       | 1          | 0                                     | 0          | 1                        | 1          | 0                     | 1          | 1                              | 1          |
| 329      | 0                       | 1          | 0                                     | 4          | 0                        | 5          | 0                     | 5          | 0                              | 5          |
| 330      | 0                       | 0          | 0                                     | 2          | 0                        | 2          | 0                     | 2          | 0                              | 2          |
| 331      | 0                       | 1          | 0                                     | 2          | 0                        | 3          | 0                     | 3          | 0                              | 3          |
| 340      | 0                       | 2          | 0                                     | 3          | 0                        | 5          | 0                     | 5          | 0                              | 5          |
| 345      | 0                       | 0          | 0                                     | 2          | 0                        | 2          | 0                     | 2          | 0                              | 2          |
| 350      | 0                       | 0          | 0                                     | 1          | 0                        | 1          | 0                     | 1          | 0                              | 1          |
| 353      | 0                       | 0          | 0                                     | 3          | 0                        | 3          | 0                     | 3          | 0                              | 3          |
| 355      | 0                       | 1          | 0                                     | 1          | 0                        | 2          | 0                     | 2          | 0                              | 2          |
| 358      | 0                       | 0          | 0                                     | 6          | 0                        | 6          | 0                     | 6          | 0                              | 6          |
| 362      | 0                       | 0          | 0                                     | 1          | 0                        | 1          | 0                     | 1          | 0                              | 1          |
| 370      | 0                       | 0          | 0                                     | 2          | 0                        | 2          | 0                     | 2          | 0                              | 2          |
| Total    | 194                     | 700        | 191                                   | 1,956      | 385                      | 2,656      | 307                   | 2,656      | 692                            | 2,656      |

NUMBER OF PERSONS BY ETHNIC ORIGIN IN THE NORTHWEST TERRITORIES  
WHO HOLD TRADE AND JOURNEYMEN'S CERTIFICATES 1/

|                           | Trademen's<br>Qualification<br>Certificate<br>(Provinces) | Journeymen's<br>Certificate<br>(Territories) | Trades<br>Certificate | Other<br>Certificate | Certif.<br>Not<br>Specified | Total             |
|---------------------------|---|--|-----------------------|----------------------|-----------------------------|-------------------|
| Total Pipeline Corridor   |   |  |                       |                      |                             |                   |
| Native                    | 1   | 4  | 7                     | 3                    | 8                           | 18                |
| Non-Native                | 15  | 31   | 39                    | 8                    | 24                          | 117               |
| Yellowknife (and Village) |   |  |                       |                      |                             |                   |
| Native                    | 2   | 5  | 1                     | 1                    | 3                           | 12                |
| Non-Native                | 26  | 34   | 57                    | 14                   | 33                          | 164               |
| Rest of District          |   |  |                       |                      |                             |                   |
| Native                    | 4   | 6  | 3                     | 6                    | 2                           | 21                |
| Non-Native                | 29  | 29   | 21                    | 39                   | 24                          | 142               |
| Total Mackenzie District  |   |  |                       |                      |                             |                   |
| Native                    | 7   | 15   | 11                    | 10                   | 8                           | 51                |
| Non-Native                | 70  | 94   | 117                   | 61                   | 81                          | 423               |
| Total                     | 77  | 109  | 128                   | 71                   | 89                          | 474               |
| Keewatin Region 2/        | 1   | 3  | 2                     | -                    | -                           | 6                 |
| Baffin Region 2/          |   |  |                       |                      |                             |                   |
| Arctic Coast Region 2/    | 1   | -  | 1                     | -                    | -                           | 2                 |
| Total N.W.T.              |   |  |                       |                      |                             |                   |
| Native                    | 9   | 18   | 14                    | 10                   | 8                           | 71 <sup>3/</sup>  |
| Non-Native                | 70  | 94   | 117                   | 61                   | 81                          | 423               |
| Total                     | 79  | 112  | 131                   | 71                   | 89                          | 494 <sup>3/</sup> |

1/ Males only.

2/ Eskimos only.

3/ Includes 12 persons in Baffin Region for whom no breakdown by certificate is available.

Source: DIAND Northern Manpower Survey Program, Table 12.

Lead Time

It must be assumed, however, that numbers of native residents will be attracted to the high wage levels of pipeline work <sup>1/</sup>. At even the lowest order of job classification, most pipeline work will in general pay far better wages than those offered by government and private enterprise. Nevertheless, the desire on the part of native residents to have pipeline construction work will not be sufficient qualification for the majority of the pipeline jobs available to them. Local labour must be able to perform the work required on pipeline construction, through having either related work experience or suitable training.

Training persons for specific jobs does not present insurmountable problems once the job specifications are known. However, the organization and timing of job training activities is extremely difficult to plan until information is available on the time parameters of the particular project. At the present time, government authorities are faced with the serious problem of estimating the types of training programs which should be initiated. This problem is compounded by lack of a definite timetable for commencement of pipeline construction, so that appropriate scheduling of training activities is not yet possible.

Many different skills, and many different levels of particular skills are required. While some skills may be taught relatively quickly in short, intensive training programs, other skill training requires longer periods of instruction supplemented by job experience. Still other skills require maximum on-the-job training with a minimum of formal classroom instruction. If intensive training courses are begun at once, but pipeline construction is delayed for some time, even years, the training efforts will be wasted, since those who have been trained will be unable to find jobs in which to use their new skills. On the other hand, if pipeline construction activity begins quite soon, there will not be sufficient time to organize the appropriate courses, select candidates and train them in sufficient numbers in time to place many persons on pipeline work. While the foregoing reflects the two extremes of the basic problem, they must nevertheless be kept under consideration while policies for involvement of territorial residents in pipeline work are being formulated.

It will be difficult at the outset of pipeline construction to fill a large quota of territorial residents, particularly native residents. From the labour supply-demand assessment in Chapter 3, it can be assumed that a number of native residents from communities adjacent to the pipeline route would qualify for jobs during the initial stages of pipeline construction. These workers would qualify largely on the basis of work experience which they already possess.

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<sup>1/</sup> See Volume 7.



Other local residents will obtain jobs for which they may qualify through receiving on-the-job training; these persons will move gradually to higher skill levels, and, in time, will be joined by those persons who have undergone formal training. On the basis of current estimates for timing of construction, it is assumed that within a two-year period, the numbers of qualified local residents working on the pipeline, as well as territorial residents from elsewhere in the N.W.T., should increase.



## CHAPTER 3

TOTAL PIPELINE LABOUR REQUIREMENTSDirect Pipeline Activities

An elementary summary of direct pipeline activities in terms of construction would be: right-of-way-clearing, access road building, camp construction, pipeline building, compressor station construction. All these, plus the associated transportation and supply support will require labour. Table 4 summarizes the total numbers of jobs likely to be associated with pipeline construction and later maintenance, grouped by major function and time period.

General Skill Classes

To assist in better assessing the labour demand-supply for pipeline construction as related to potential employment of northern residents, occupational skill groups or classes have been developed which are presented in Table 5. <sup>1/</sup> These classifications may be considered as applicable to all aspects of construction and operation and maintenance of pipelines within the northern territories.

One difficulty experienced in attempting to classify jobs on the basis of existing occupational definitions, such as those used for the D.I.A.N.D. Northern Manpower Survey Program (standard definitions used by Statistics Canada) is to determine precisely what level of skill is required. For example, there are as many types of "heavy equipment operators" as there are types of heavy equipment. Therefore, difficulties may arise in attempting to determine whether a man who can operate a caterpillar tractor or a fork lift or related equipment will have the experience and finesse necessary to operate a side-boom tractor on a pipeline construction project.

Definition of Occupations  
Within Skill Classes <sup>2/</sup>

From information obtained concerning pipeline construction jobs, the skill classes are broken down according to specific occupations, as closely as could be determined. To the individual skills or occupational classifications, the relevant occupation code numbers as used by the D.I.A.N.D. Manpower Survey Program were assigned. These

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<sup>1/</sup> Volume 2, Part 2.

<sup>2/</sup> Information in this and subsequent sections dealing with labour demand derived from Volume 2, except where specified otherwise.

Table 4

BASE CASE MACKENZIE GAS PIPELINE ESTIMATE OF  
ANNUAL NUMBER OF JOBS BY MAJOR FUNCTION <sup>1/</sup>

| <u>Major<br/>Function</u>  | <u>Period and<br/>Time</u> | <u>Period of Major<br/>Pipe Construction<br/>(Mid Yr 2 - Mid Yr 5)<br/>(Approx 3 yrs)</u> | <u>Post Pipe Compressor<br/>And Facility Const.<br/>(Mid yr 5 - Yr 9)<br/>(Approx 4½ yrs)</u> | <u>Post Construction<br/>Capacity Operation<br/>(After Yr 9)<br/>(Indefinite)</u> |
|--|----------------------------|---|---|---|
| <u>Pipeline Construction</u>   |                            |   |   |   |
| Maximum  |                            | 5,446   | -   | -   |
| Intermediate   |                            | 4,735   | -   | -   |
| Minimum  |                            | 4,025   | -   | -   |
| <u>Compressor and Operating Facility Construction</u>                                |                            |   |   |   |
| Maximum  |                            | 834   | 487   | -   |
| Intermediate   |                            | 725   | 423   | -   |
| Minimum  |                            | 616   | 360   | 0   |
| <u>Off-Site Transport &amp; Handling For Pipe Construction</u>                       |                            |   |   |   |
| Maximum  |                            | 356   | -   | -   |
| Intermediate   |                            | 310   | -   | -   |
| Minimum  |                            | 264   | -   | -   |
| <u>Off-Site Transport for Compressor &amp; Maintenance<br/>Facility Construction</u> |                            |   |   |   |
| Maximum  |                            | -   | 56  | -   |
| Intermediate   |                            | -   | 49  | -   |
| Minimum  |                            | -   | 42  | -   |
| <u>Catering and Camp Operation</u>   |                            |   |   |   |
| Maximum  |                            | 883   | 75  | -   |
| Intermediate   |                            | 768   | 65  | -   |
| Minimum  |                            | 653   | 55  | -   |
| <u>Operation and Maintenance Staff</u>   |                            |   |   |   |
| Maximum  |                            | -   | 121   | 226   |
| Intermediate   |                            | -   | 105   | 197   |
| Minimum  |                            | -   | 89  | 168   |

<sup>1/</sup> Maximum and minimum 15 per cent of intermediate. Jobs in any function extend beyond period shown but at reduced levels.

Source: "Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories", background paper, M.P.S. Associates and Unies Limited, May, 1972.

Table 5

DEFINITION OF GENERAL SKILL CLASSES FOR PIPELINE CONSTRUCTION  
AND OPERATION IN THE MACKENZIE VALLEY, N.W.T.

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|           |  |
|-----------|--|
| Class I   | Skilled pipeline workers with experience and/or qualifications which usually can only be provided by direct on-the-job training in pipeline work. Labour in this classification is in short supply and thus has a high income capability.  |
| Class II  | Labour in this classification is comprised essentially of skilled construction-oriented labour with highly developed skills which are not necessarily related specifically to pipeline construction. Experience or intensive training either prior to pipeline construction or on-the-job training would be required. Such labour is more readily available than Class I but at relatively high wage levels. |
| Class III | Labour in this classification is defined as having some clerical or light equipment handling experience. On-the-job or pre-training may be required for certain aspects of pipeline work.  |
| Class IV  | Labour in this classification is defined as having little or no previous experience related to service, construction or transportation functions.  |

Source: "Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories", background paper, M.P.S. Associates and Unies Limited, May, 1972.



were then placed within the appropriate skill classes presented in Table 6. Many of the occupations given within the manpower survey were just sufficiently different as to function, even though having the same general name, to require detailed specification, and thus separate codes - i.e., a job listed simply as "driver" was not regarded as exact, therefore, codes for truck drivers, bus drivers, etc. were used. For purposes of simplicity, however, the impact study compressed the large numbers of occupations shown in Table 6 into more general skills, with assigned numbers (Table 7).

#### Total Job Requirements for Pipeline Construction, Post-Construction

There are many inherent problems in forecasting types and numbers of jobs likely to be associated with pipeline construction, operation and ancillary activities. Throughout the impact study, efforts have been made to present job or labour estimates in terms of high, low and intermediate figures. Throughout most of the tabulations in the following sections on labour demand, therefore, figures within the tables are based on the intermediate estimate; the maximum and minimum figures are given in footnotes.

Table 8 presents the estimate of total numbers of jobs by occupation likely to be available or required annually throughout the period of construction and also for immediate post-construction operation. These jobs are then summarized according to skill class groups in Table 9. Appendices 3 through 11 contain a detailed occupation break-down of these jobs according to specific phases of construction and operation periods.

The various phases of the total program, as given in Table 10 and Appendices 3 through 11, may be described as follows: 1/

"Pipeline Construction" provides an estimate of labour skills required for on-site construction activity including survey, R.O.W.2/ clearing, pipe stringing, laying and clean-up.

"Compressor Station and Operating Facilities Construction" provides an estimate of labour skills required to construct compressor facilities, district and division offices.

"Off-site Transportation and Handling For Pipeline Construction" provides an estimate of labour skills required for transporting pipe and materials within the northern territories including handling at stockpile locations.

"Off-site Transportation for Compressor Operation and Maintenance Facility Construction" provides an estimate of labour

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1/ Volume 2, Part 2.

2/ Right-of-way.

Table 6

CODE NUMBERS FOR THOSE OCCUPATIONS<sup>1/</sup> DEFINED AS THE ONES MOST DIRECTLY  
RELATED TO PIPELINE CONSTRUCTION, OPERATION AND MAINTENANCE

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Skill Class I

|      |  |      |  |
|------|--|------|--|
| 006  | Office Managers  | 214* | Shipping & Receiving Clerks                |
| 101  | Civil Engineers  | 221* | Baggagemen & Expressmen, Transport         |
| 102  | Mechanical Engineers   | 232* | Stenographers                              |
| 104  | Industrial Engineers   | 413  | Cooks                                      |
| 105  | Electrical Engineers   | 459  | Service Workers, n.e.s.                    |
| 153  | Lawyers, Notaries  | 510  | Inspectors and foremen                     |
| 563* | Teamsters  | 520  | Airpilots, navigators and flight engineers |
| 817* | Welders, flame cutters   | 548  | Pilot, ship                                |
| 851* | Foremen, general construction                                      | 556* | Truck Drivers                              |
| 876* | Operators of earth-moving equip. & other construction mach. n.e.s. | 557* | Drivers, n.e.s.                            |

Skill Class II

|      |   |       |  |
|------|---|-------|--|
| 008  | Purchasing Agents, Buyers                 | (563) | Teamsters  |
| 011  | Contractors, Building                     | 702   | Bakers   |
| 012  | Contractors, Services                     | 751   | Carpenters   |
| 013  | Contractors, Heavy Equip.                 | 805   | Millwrights  |
| 109  | Professional Engineers, n.e.s.            | 806   | Fitters and Assemblers, n.e.s., metal              |
| 112  | Geologists                                | 808   | Metalworking machine operators, n.e.s.             |
| 121  | Biological Scientists                     | 810   | Plumbers and Pipefitters                           |
| 149  | Other Health Professionals                | 811   | Sheetmetal workers                                 |
| 182* | Draughtsman                               | 813   | Boilermakers, platers and structural steel workers |
| 183  | Surveyors                                 | (817) | Welders & flame cutters                            |
| 188  | Accountants & Auditors                    | 821   | Mechanics and repairmen, aircraft                  |
| 196  | Photographers                             | 822   | Mechanics and repairmen, motor vehicle             |
| 198  | Science & Engineering Technicians, n.e.s. | 824*  | Mechanics and repairmen, office machine            |
| 199  | Professional Occupations, n.e.s.          | 831   | Electricians and electrical repairmen              |
| 212* | Store Clerk, Store Keepers                | 833   | Power station operator                             |
|      |   | 835   | Mechanics and repairmen, radio & T.V.              |

<sup>1/</sup> Standard occupational classification as used by D.B.S. (Statistics Canada) and in the DIAND N.W.T. Manpower Survey Program.

\* Occupation required in one or more of the following groups.

( ) Occupation required in previous skill group(s).

Table 6 (cont'd)

|       |   |       |   |
|-------|---|-------|---|
| 838   | Linemen and servicemen,<br>telephone, telegraph &<br>power            | 611   | Logging foremen   |
| 839   | Electrical and electronics<br>workers, n.e.s.                         | 615*  | Lumbermen, incl.<br>labourers in logging                      |
| (851) | General foremen-<br>construction                                      | 760   | Carpenters, apprentice  |
| 852*  | Inspectors-construction   | 820   | Plumbers, apprentice  |
| 855*  | Cement & concrete<br>finishers  | 823   | Apprentice mechanic,<br>motor vehicle                         |
| 872   | Stationary enginemen  | (824) | Mechanics and repairmen,<br>office machine                    |
| 874   | Hoistmen, cranemen,<br>derrickmen                                     | 827   | Apprentice diesel mechanic                                    |
| 875   | Riggers and cable splicers<br>(except telephone, telegraph,<br>hydro) | 828   | Skidoo and outboard<br>motor repairmen                        |
| (876) | Operators of earth moving and<br>other const. machinery, n.e.s.       | (851) | General foremen,<br>construction                              |
| 877*  | Materials handling<br>operators                                       | (852) | Inspectors, construction                                      |
| 900*  | Foremen, n.e.s.   | (855) | Cement & concrete finishers                                   |
| 928*  | Labourer, construction  | 859*  | Construction workers, n.e.s.                                  |
|       |   | (876) | Operators of earth-moving<br>and other const. mach. n.e.s.    |
|       |   | (877) | Materials handling<br>equipment operators                     |
|       |   | 878*  | Oilers and greasers,<br>machinery & vehicles<br>(except ship) |
|       |   | 881*  | Longshoremen and freight<br>handlers                          |
|       |   | 882*  | Warehousemen and freight<br>handlers                          |
|       |   | (900) | Foremen, n.e.s.   |
|       |   | 920*  | Labourer, general work,<br>n.e.s.                             |
|       |   | 921   | Carpenter's helper  |
|       |   | 922   | Electrician's helper  |
|       |   | 923   | Plumber's helper  |
|       |   | 924   | Mechanic's helper   |
|       |   | 925*  | Cook's helper   |
|       |   | 926*  | Labourer, road building,<br>maintenance                       |
|       |   | (928) | Labourer, construction  |
|       |   | 929*  | Driver's helper   |
|       |   | 930   | Carpenter, semi-skilled                                       |
|       |   | 931   | Camp Patrol   |
|       |   | 932   | Painter's helper  |

Skill Class III

|       |   |
|-------|---|
| 009   | Administrative Officer                    |
| 014   | Admin. Officer Trainee                    |
| (182) | Draughtsmen                               |
| 201   | Bookkeepers & cashiers                    |
| 203   | Office Appliance operator                 |
| (212) | Stock clerks, store-<br>keepers           |
| (214) | Shipping & receiving<br>clerks            |
| (221) | Baggagemen and express-<br>men, transport |
| (232) | Stenographers                             |
| 234   | Typists and Clerk-typists                 |
| 249   | Clerical Occupations n.e.s.               |
| 405   | Guards - Watchmen n.e.s.                  |
| 415   | Waiters                                   |
| (459) | Service Workers, n.e.s.                   |
| 551   | Bus Drivers                               |
| (556) | Truck Drivers                             |
| (557) | Drivers, n.e.s.                           |
| 569*  | Transport occupations,<br>n.e.s.          |

Table 6 (cont'd)

Skill Class IV

- (459) Service workers, n.e.s.
- (569) Transport occupations n.e.s.
- (615) Lumbermen, incl. labourers  
in logging
- (815) General foremen -  
construction
- (859) Construction workers, n.e.s.
- (878) Oilers and greasers -  
machinery & vehicles  
(except ship)
- 879 Pumping gas, aircraft
- (881) Longshoremen & stevedores
- (882) Warehousemen and freight  
handlers
- (900) Foremen, n.e.s.
- (920) Labourer, general work  
not specified
- (925) Cook's helper
- (926) Labourer, road building,  
maintenance
- (928) Labourer, construction
- (929) Driver's helper



Table 7

MASTER LIST OF THE OCCUPATIONAL GROUPS FOR  
THE BASE CASE MACKENZIE GAS PIPELINE

| <u>Pipeline Study<br/>Code No.</u> | <u>Occupation Name</u>                | <u>Mackenzie Survey<br/>Occupation Code 1/</u> |
|------------------------------------|---------------------------------------|--|
| 1                                  | Accountant                            | 234  |
| 2                                  | Administrative Trainee                | 009, 014, 212, 214                             |
| 3                                  | Carpenter                             | 751, 930                                       |
| 4                                  | Carpenter's Apprentice                | 760, 921                                       |
| 5                                  | Clerical                              | 249  |
| 6                                  | Cooks                                 | 413, 702                                       |
| 7                                  | Cook's Helper                         | 419, 459, 925                                  |
| 8                                  | Drivers (Truck & Bus)                 | 551, 556                                       |
| 9                                  | Electricians                          | 831, 839                                       |
| 10                                 | Electrician's Helper                  | 922  |
| 11                                 | Engineers (Prof.)                     | 102, 109, 199                                  |
| 12                                 | Foremen                               | 851, 900, 611, 510                             |
| 13                                 | Inspectors                            | 852  |
| 14                                 | Labour (Camp)                         | 405, 454, 459, 760, 920,<br>921, 927, 930, 931 |
| 15                                 | Labour (Operation and<br>Maintenance) | 920, 926, 928                                  |
| 16                                 | Labour (Pipelaying and<br>Compressor) | 615, 855, 859, 920, 926,<br>928                |
| 17                                 | Labour (Warehousing and<br>Tug)       | 545, 547, 881, 882, 920                        |
| 18                                 | Mechanics                             | 881, 882                                       |
| 19                                 | Mechanic's Helpers                    | 823, 827, 924                                  |
| 20                                 | Millwright                            | 805, 806, 808, 810, 811,<br>813                |
| 21                                 | Oilers                                | 878  |
| 22                                 | Office Managers                       | 006, 010, 188                                  |
| 23                                 | Office Assistants                     | 201, 203, 212, 214, 232,<br>249, 405           |
| 24                                 | Other Trades                          | 810, 830, 831, 838, 859                        |
| 25                                 | Plumber's Apprentice                  | 820, 923                                       |
| 26                                 | Principal Operators                   | 520, 541, 874, 876, 877                        |
| 27                                 | Purchasing Agent                      | 008  |
| 28                                 | Safety Staff                          | 104, 143, 149                                  |
| 29                                 | Superintendents                       | 010, 109, 851                                  |
| 30                                 | Superintendent's Asst.                | 851  |
| 31                                 | Surveyors                             | 183, 198                                       |
| 32                                 | Surveyor's Assistant                  | 182, 198, 852                                  |
| 33                                 | Technicians                           | 182, 198, 852                                  |
| 34                                 | Warehousing                           | 882  |
| 35                                 | Welders                               | 817  |
| 36                                 | Welders Helpers                       | 920, 928                                       |



Source: "Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories", background paper.  
M.P.S. Associates and Unies Limited, May, 1972.

1/ Note that certain occupations as shown by Manpower Survey codes are duplicated in those definitions of pipeline skills.

Table 8

ESTIMATE OF THE TOTAL NUMBER OF ANNUAL JOBS BY OCCUPATION AND  
ACTIVITY PERIOD FOR THE BASE CASE MACKENZIE GAS PIPELINE

| <u>Pipeline<br/>Study<br/>Code No.</u> | <u>Occupation Name</u>                | <u>Period<br/>of Pipe<br/>Construction</u><br>(3 years) | <u>Post Pipe<br/>Compressor/<br/>Facility</u><br>(4½ years) | <u>Post<br/>Construction<br/>Operation</u><br>(Indefinite) |
|--|---------------------------------------|---|---|--|
| 1                                      | Accountant                            | 4   | -   | -  |
| 2                                      | Administ. Trainee                     | 72  | 5   | -  |
| 3                                      | Carpenter                             | 116   | 37  | 7  |
| 4                                      | Carpenter Apprentice                  | 47  | 28  | -  |
| 5                                      | Clerical                              | 16  | 9   | -  |
| 6                                      | Cook                                  | 77  | 6   | -  |
| 7                                      | Cook's Helper                         | 215   | 18  | -  |
| 8                                      | Driver (Truck & Bus)                  | 705   | 6   | 7  |
| 9                                      | Electrician                           | 47  | 27  | -  |
| 10                                     | Electrician Apprentice                | 47  | 28  | -  |
| 11                                     | Engineer (Prof.)                      | 32  | 10  | 9  |
| 12                                     | Foreman                               | 181   | 17  | 9  |
| 13                                     | Inspector                             | 31  | 18  | -  |
| 14                                     | Labour (Camp)                         | 253   | 21  | -  |
| 15                                     | Labour (Operation and<br>Maintenance) | -   | 13  | 25   |
| 16                                     | Labour (Pipelaying and<br>Compressor) | 1,302   | 97  | -  |
| 17                                     | Labour (Warehouse and<br>Tug)         | 114   | 34  | -  |
| 18                                     | Mechanic                              | 134   | 7   | 13   |
| 19                                     | Mechanic's Helper                     | 148   | -   | -  |
| 20                                     | Millwright                            | 127   | 75  | -  |
| 21                                     | Oilers                                | 147   | -   | -  |
| 22                                     | Office Manager                        | 70  | 14  | 4  |
| 23                                     | Office Assistant                      | 63  | 13  | 17   |
| 24                                     | Other Trade                           | 31  | 18  | 29   |
| 25                                     | Plumber's Apprentice                  | 47  | 28  | -  |
| 26                                     | Principal Operator                    | 919   | 44  | 14   |
| 27                                     | Purchasing Agent                      | 25  | 10  | 2  |
| 28                                     | Safety Staff                          | 19  | -   | -  |
| 29                                     | Superintendent                        | 28  | -   | -  |
| 30                                     | Superintendent's Asst.                | 14  | -   | -  |
| 31                                     | Surveyor                              | 24  | -   | -  |
| 32                                     | Surveyor's Assistant                  | 62  | -   | -  |
| 33                                     | Technician                            | 74  | 43  | 48   |
| 34                                     | Warehouseman                          | 30  | 10  | 2  |
| 35                                     | Welder                                | 630   | 6   | 11   |
| 36                                     | Welder's Helper                       | 687   | -   | -  |

Source: "Evaluation of Occupational Classification and Direct Labour Requirements in Northern Territories", background paper, M.P.S. Associates and Unies Limited, May, 1972.

Table 9

ESTIMATE OF THE TOTAL NUMBER OF ANNUAL JOBS BY TOTAL WITHIN EACH  
SKILL CLASS FOR THE BASE CASE MACKENZIE GAS PIPELINE

|                 | <u>Period<br/>of Pipe<br/>Construction</u> | <u>Post Pipe<br/>Compressor/<br/>Facility</u> | <u>Post<br/>Construction<br/>Operation</u> |
|-----------------|--|---|--|
|                 | (3 years)                                  | (4½ years)                                    | (Indefinite)                               |
| Skill Class I   | 1,339                                      | 78  | 36   |
| Skill Class II  | 2,204                                      | 345   | 116  |
| Skill Class III | 1,926                                      | 155   | 35   |
| Skill Class IV  | 1,069                                      | 64  | 10   |
|                 | <hr/>                                      | <hr/>   | <hr/>                                      |
| TOTAL           | 6,538                                      | 642   | 197  |

Source: "Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories", background paper, M.P.S. Associates and Unies Limited, May, 1972.

Table 10

SUMMARY OF TOTAL JOB REQUIREMENTS FOR EACH SPECIFIC  
PHASE OF PIPELINE CONSTRUCTION AND OPERATION

| Jobs  | Total<br>Jobs <sup>1/</sup> | Total Jobs by Skill Class <sup>1/</sup> |       |       |       |
|---|-----------------------------|---|-------|-------|-------|
|   |                             | I                                       | II    | III   | IV    |
| Pipeline Construction-<br>Major Period                                | 4,735                       | 1,235                                   | 1,340 | 1,397 | 763   |
| Compressor Stations &<br>Facility Construction -<br>Major Period      | 725                         | 100                                     | 436   | 151   | 38    |
| Compressor Station &<br>Facility Construction -<br>Post Period        | 423                         | 59                                      | 251   | 91    | 22    |
| Off-Site Transportation<br>and Handling - Major<br>Period             | 310 <sup>2/</sup>           | -                                       | 144   | 95    | 71    |
| Off-Site Transportation<br>- Post Period                              | 49                          | -                                       | 8     | 21    | 20    |
| Catering and Camp Oper-<br>ating - Major Period                       | 768                         | 4                                       | 284   | 283   | 197   |
| Catering and Camp Oper-<br>ating - Post Period                        | 65                          | 1                                       | 25    | 23    | 16    |
| Operation and Mainten-<br>ance Staff - Post<br>Period                 | 105                         | 18                                      | 61    | 20    | 6     |
| Operation and Mainten-<br>ance Staff: Permanent<br>Jobs - Post Period | 197                         | 36                                      | 116   | 35    | 10    |
| TOTAL   | 7,377                       | 1,453                                   | 2,665 | 2,116 | 1,143 |

<sup>1/</sup> Based on Intermediate estimates - see Appendices 3 - 11.

<sup>2/</sup> Includes 106 jobs in Yukon Territory.

Source: "Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories", background paper, M.P.S. Associates and Unies Limited, May, 1972.

skills required for transporting equipment, materials and supplies within the northern territories as required to place it "at site".

"Catering and Camp Operation" provides an estimate of labour skills required for the operation of construction camps which would be established and be the "home" of pipeline labour throughout the period of pipeline and compressor construction activity.

"Continuing Operation and Maintenance" provides an estimate of labour skills required at division and district offices located within the northern territories for operating and maintaining the pipeline after its completion.

For construction work alone, these estimates call for a total labour in-put of over 6,500 jobs. The material in Chapter 3 has been presented in terms of total jobs associated with pipeline construction, operation. The next important point to determine is to what extent these jobs can or might be filled by northern residents, especially native residents.





## CHAPTER 4

JOBS AVAILABLE TO NORTHERN RESIDENTSBasic Assumptions

It has been assumed that only a proportion of total pipeline jobs - construction and operation - would be open to northern residents. "Open" in this sense is defined as jobs of which they are capable of taking. Pipeline work has many difficult and highly specialized and technical facets which require competent, technically qualified workers to handle. To make unrealistic demands on the industry by insisting that large numbers of native workers be fitted into pipeline work from the outset could be prejudicial to these workers' chances of success. Leaving aside such aspects as the degree of their own inclinations and motivation, excessive demands on the native workers could be harmful to them in many respects. Rather than speak in terms of blanket quotas, a more realistic approach would be one through which every effort was made to place as many native residents as possible in jobs which are within their capabilities. This approach, together with the principle of first refusal, would probably ensure that increasing numbers of native workers are given the opportunity both to obtain work and to obtain increasingly higher levels of training and work experience.

Therefore, rather than assess labour demand and supply in terms of total job requirements, the total jobs have been assessed 1/ according to those which might be open to native residents.2/

Jobs by Occupation and Skill  
Available to Local Residents

It has been assumed that a proportion of jobs within each skill class would be potentially open to territorial residents.3/ On the basis of the requirements for training and experience for jobs in each skill class (Table 5, Chapter 3), the percentage of jobs within each skill class available to territorial residents are:

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1/ Source - Volume 2 and related background material.

2/ Although job demand is presented in terms of territorial residents throughout most of the impact study, in Volume 6, concentration is on the native population since it may be safely assumed that the majority of government efforts will be concentrated on maximizing native involvement on pipeline construction and post-construction activities.

3/ Residents would include Indian, Eskimo and Métis persons and those non-natives already resident in the Territory. Speculative transients, those who come North specifically to seek pipeline work, would not be defined as residents.

|                 |                |
|-----------------|----------------|
| Skill Class I   | - 0 per cent   |
| Skill Class II  | - 10 per cent  |
| Skill Class III | - 100 per cent |
| Skill Class IV  | - 100 per cent |

These must be regarded as the maximum potential involvement only.

The total number of jobs defined as above are listed by major function in Table 11. In the actual pipeline construction phase, for which northern resident-potential jobs comprise 48 per cent of the total, it might be safe to assume that over a three-year period, sufficient numbers of territorial residents, particularly native residents, would become qualified to participate to this extent. Detailed breakdowns according to territorial resident participation in each separate phase are presented in Appendices 12 through 20, summarized in Table 12.

The number of jobs which might be available to territorial residents are listed in Table 13, by occupation and phase or activity period. Table 14 summarizes this information by skill class.

It is estimated that approximately 3,200 jobs are available to territorial residents for the period of pipeline construction, just under 50 per cent of estimated total number of jobs for this phase. For the succeeding phases, the numbers of jobs potentially open to territorial residents decrease significantly, to 39 per cent for the post-pipeline/compressor facility stage, and to 28 per cent for post-construction operations phase.

The activity or phase of most direct immediate concern to planners at the present time is, of course, the construction phase. Pre-construction activities, i.e., transportation of material and supplies, preparation of sites for camps, clearing, will require large labour in-puts which could be supplied locally without a great deal of advance preparation, or initiation of special courses. <sup>1/</sup> The skill inventory of the local territorial resident work force (assessed in detail in the following chapter), both native and non-native, will be adequate for the bulk of the pre-construction work. Much of the work will require experience which workers have already gained. A great deal of the work will be general labour, suited to on-the-job training.

---

<sup>1/</sup> Planning of methods of recruitment and deployment of workers to work sites will require careful attention, as will establishment of methods for ensuring that recruitment notices are properly circulated, that territorial residents are receiving the right of first refusal planned by the government as a requirement of industry, contractors, etc.

Table 11

ESTIMATE OF POTENTIAL JOBS BY MAJOR FUNCTION AVAILABLE TO TERRITORIAL  
RESIDENTS FOR THE BASE CASE MACKENZIE GAS PIPELINE

| <u>Period and<br/>Time</u>                                     | <u>Period of<br/>Major Pipe<br/>Construction</u> | <u>Post Pipe<br/>Compressor and<br/>Facility Const.</u> | <u>Post Construc-<br/>tion Capacity<br/>Operation</u> |
|--|--|---|---|
| <u>Major<br/>Function</u>                                      | <u>(Mid yr 2-Mid yr 5)<br/>Approx 3 yrs)</u>     | <u>(Mid yr 5-Yr 9)<br/>(Approx 4½ yrs)</u>              | <u>(After year 9)<br/>(Indefinite)</u>                |
| <u>Pipeline Construction</u>                                   |  |   |   |
| Maximum <sup>1/</sup>  | 2,638  | -   | -   |
| Intermediate   | 2,294 (48%) <sup>2/</sup>                        | -   | -   |
| Minimum  | 1,950  | -   | -   |
| <u>Compressor and Operating Facility Construction</u>          |  |   |   |
| Maximum  | 267  | 159   | -   |
| Intermediate   | 232 (32%)  | 138 (32%)   | -   |
| Minimum  | 198  | 118   | -   |
| <u>Off-Site Transport &amp; Handling for Pipe Construction</u> |  |   |   |
| Maximum  | 207  | -   | -   |
| Intermediate   | 180 (58%)  | -   | -   |
| Minimum  | 153  | -   | -   |
| <u>Off-Site Transport for Compressor &amp; Maintenance</u>     |  |   |   |
| Maximum  | -  | 48  | -   |
| Intermediate   | -  | 42 (86%)  | -   |
| Minimum  | -  | 36  | -   |
| <u>Catering and Camp Operation</u>                             |  |   |   |
| Maximum  | 584  | 47  | -   |
| Intermediate   | 508  | 41 (63%)  | -   |
| Minimum  | 432  | 35  | -   |
| <u>Operation and Maintenance Staff</u>                         |  |   |   |
| Maximum  | -  | 37  | 64  |
| Intermediate   | -  | 32 (30%)  | 56  |
| Minimum  | -  | 27  | 48  |

<sup>1/</sup> Maximum and Minimum 15 per cent of Intermediate. Jobs in any function extend beyond period shown but at reduced levels.

<sup>2/</sup> Per cent of total jobs as shown in Table 4, Chapter 3, above

Source: "Evaluation of Occupation Classifications and Direct Labour Requirements in Northern Territories", background paper, M.P.S. Associates and Unies Limited, May, 1972.

Table 12

SUMMARY OF JOBS ESTIMATED AS AVAILABLE TO TERRITORIAL RESIDENTS  
FOR EACH SPECIFIC PHASE OF PIPELINE CONSTRUCTION AND OPERATION

|  | Total<br>Jobs <sup>1/</sup> | Per Cent of<br>Total <sup>2/</sup> | Total Jobs by Skill Class |           |            |                | IV<br>No. |
|--|-----------------------------|------------------------------------|---------------------------|-----------|------------|----------------|-----------|
|  |                             |                                    | I<br>No.                  | II<br>No. | III<br>No. | Per 2/<br>Cent |           |
| Pipeline Construction - Major Period                             | 2,294                       | 48.4                               | -                         | 134       | 1,397      | 100.0          | 763       |
| Compressor Stations & Facility<br>Construction - Major Period    | 232                         | 32.0                               | -                         | 43        | 151        | 100.0          | 38        |
| Compressor Stations & Facility<br>Construction - Post Period     | 138                         | 32.6                               | -                         | 25        | 91         | 100.0          | 22        |
| Off-site Transportation and Handling<br>- Major Period           | 180                         | 58.1                               | -                         | 14        | 95         | 100.0          | 71        |
| Off-site Transportation - Post Period                            | 42                          | 85.7                               | -                         | 1         | 21         | 100.0          | 20        |
| Catering and Camp Operating - Major<br>Period                    | 508                         | 66.1                               | -                         | 28        | 283        | 100.0          | 197       |
| Catering and Camp Operating - Post<br>Period                     | 41                          | 63.1                               | -                         | 2         | 23         | 100.0          | 16        |
| Operation and Maintenance Staff - Post<br>Period                 | 32                          | 30.5                               | -                         | 6         | 20         | 100.0          | 6         |
| Operation and Maintenance Staff:<br>Permanent Jobs - Post Period | 56                          | 28.4                               | -                         | 11        | 35         | 100.0          | 10        |
| Total  | 3,523                       | 47.8                               | -                         | 264       | 2,116      | 100.0          | 1143      |

<sup>1/</sup> Based on Intermediate Estimates

<sup>2/</sup> Percentage of total jobs in same class given in Table 10, Chapter 3, above.

Source: "Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories", background paper, M.P.S. Associates and Unies Limited, May 1972.



Table 13

ESTIMATE OF POTENTIAL ANNUAL JOBS AVAILABLE TO TERRITORIAL RESIDENTS BY  
OCCUPATION AND ACTIVITY PERIOD FOR THE BASE CASE MACKENZIE PIPELINE

| No.   | Occupation Name                       | Period<br>of Pipe<br>Constr. | PerCent <sup>1/</sup><br>of<br>Total | Post Pipe<br>Compressor/<br>Facility | PerCent<br>of<br>Total | Post<br>Constr.<br>Operation | PerCent<br>of<br>Total |
|-------|---------------------------------------|------------------------------|--------------------------------------|--------------------------------------|------------------------|------------------------------|------------------------|
| 1     | Accountant                            | 3                            | 75.0                                 | -                                    | -                      | -                            | -                      |
| 2     | Admin. Trainee                        | 26                           | 36.1                                 |                                      |                        |                              |                        |
| 3     | Carpenter                             | 46                           | 39.7                                 | 11                                   | 29.7                   | 2                            | 28.6                   |
| 4     | Carpenter Apprentice                  | 19                           | 40.4                                 | 12                                   | 42.9                   |                              |                        |
| 5     | Clerical                              | 4                            | 25.0                                 | 3                                    | 33.3                   |                              |                        |
| 6     | Cook                                  | 18                           | 23.7                                 | 2                                    | 33.3                   |                              |                        |
| 7     | Cooks Helper                          | 187                          | 87.0                                 | 15                                   | 83.3                   |                              |                        |
| 8     | Driver (Truck & Bus)                  | 356                          | 50.5                                 | 2                                    | 33.3                   | 6                            | 85.7                   |
| 9     | Electrician                           | 3                            | 6.3                                  | 2                                    | 7.4                    |                              |                        |
| 10    | Electrician Apprent.                  | 19                           | 40.4                                 | 12                                   | 42.9                   |                              |                        |
| 11    | Engineer (Prof.)                      | 1                            | 3.1                                  |                                      |                        |                              |                        |
| 12    | Foreman                               | 29                           | 16.0                                 | 2                                    | 11.8                   | 2                            | 22.2                   |
| 13    | Inspector                             | 4                            | 12.9                                 | 2                                    | 11.1                   |                              |                        |
| 14    | Labour (Camp)                         | 219                          | 86.8                                 | 18                                   | 5.7                    |                              |                        |
| 15    | Labour (Operation<br>and Maintenance) |                              |                                      | 4                                    | 30.8                   | 22                           | 88.0                   |
| 16    | Labour (Pipe-<br>Compressor)          | 1,151                        | 88.4                                 | 69                                   | 71.1                   |                              |                        |
| 17    | Labour (Warehouse -<br>Tug)           | 114                          | 100.0                                | 34                                   | 100.0                  |                              |                        |
| 18    | Mechanic                              | 8                            | 6.0                                  |                                      |                        | 2                            | 15.4                   |
| 19    | Mechanic's Helper                     | 111                          | 75.0                                 |                                      |                        |                              |                        |
| 20    | Millwright                            | 16                           | 12.6                                 | 9                                    | 12.0                   |                              |                        |
| 21    | Oilers                                | 102                          | 69.4                                 |                                      |                        |                              |                        |
| 22    | Office Manager                        | 6                            | 8.6                                  | 1                                    | 7.1                    |                              |                        |
| 23    | Office Assistant                      | 26                           | 41.3                                 | 6                                    | 46.2                   | 7                            | 41.2                   |
| 24    | Other Trade                           | 13                           | 41.9                                 | 18                                   | 100.0                  | 7                            | 24.1                   |
| 25    | Plumber's Apprentice                  | 19                           | 40.4                                 | 12                                   | 42.9                   |                              |                        |
| 26    | Principal Operator                    | 132                          | 14.4                                 | 10                                   | 22.7                   | 3                            | 21.4                   |
| 27    | Purchasing Agent                      | 1                            | 4.0                                  |                                      |                        |                              |                        |
| 28    | Safety Staff                          | 1                            | 5.3                                  |                                      |                        |                              |                        |
| 29    | Superintendent                        | 1                            | 3.6                                  |                                      |                        |                              |                        |
| 30    | Supt. Assistant                       | 1                            | 7.1                                  |                                      |                        |                              |                        |
| 31    | Surveyor                              | 2                            | 8.3                                  |                                      |                        |                              |                        |
| 32    | Surveyor's Assist.                    | 48                           | 77.4                                 |                                      |                        |                              |                        |
| 33    | Technician                            | 11                           | 4.9                                  | 3                                    | 7.0                    | 3                            | 6.3                    |
| 34    | Warehouseman                          | 4                            | 3.3                                  | 3                                    | 30.0                   | 1                            | 50.0                   |
| 35    | Welder                                | 11                           | 1.7                                  | 1                                    | 6.7                    | 1                            | 9.0                    |
| 36    | Welder's Helper                       | 502                          | 73.1                                 |                                      |                        |                              |                        |
| Total |                                       | 3,214                        | 49.2                                 | 251                                  | 39.4                   | 56                           | 28.4                   |

<sup>1/</sup> Total as shown in Table 8, Chapter 3, above.

Source: "Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories", background paper, M.P.S. Associates and Unies Limited, May. 1972.

Table 14

ESTIMATE OF THE TOTAL NUMBERS OF ANNUAL JOBS AVAILABLE TO  
TERRITORIAL RESIDENTS BY TOTAL JOBS IN EACH  
SKILL CLASS FOR THE BASE CASE MACKENZIE GAS PIPELINE

| <u>Skill Class</u> | <u>Period<br/>of Pipe<br/>Construction</u> |                             | <u>Post Pipe<br/>Compressor/<br/>Facility</u> |                             | <u>Post<br/>Construction<br/>Operation</u> |                             |
|--------------------|--|-----------------------------|---|-----------------------------|--|-----------------------------|
|                    | <u>Jobs</u>                                | <u>PerCent<br/>of Total</u> | <u>Jobs</u>                                   | <u>PerCent<br/>of Total</u> | <u>Jobs</u>                                | <u>PerCent<br/>of Total</u> |
| I                  | -  | -                           | -   | -                           | -  | -                           |
| II                 | 219  | 9.9                         | 34  | 9.8                         | 11   | 9.5                         |
| III                | 1,926                                      | 100.0                       | 155   | 100.0                       | 35   | 100.0                       |
| IV                 | 1,069                                      | 100.0                       | 64  | 100.0                       | 10   | 100.0                       |
| TOTAL              | 3,214                                      | 49.1                        | 253   | 39.4                        | 56   | 28.4                        |

1/ Total as shown in Table 9, Chapter 3, above.

Source: "Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories", background paper, M.P.S. Associates and Unies Limited, May, 1972.

The post-construction phases of the pipeline development program are sufficiently distant in time to allow an optimistic view to be taken of territorial (native) resident participation. The construction of the Mackenzie Highway, the pre-pipeline construction work, involvement in oil and gas exploration programs by many natives, the routine work always in progress in the communities according to the season (e.g., housing programs, brushing, fire-fighting) will provide work experience relevant to work required on much of the construction phase. The actual construction phase, estimated to be of long duration, should allow development to adequate levels of both direct job experience and training to allow numbers of northern residents to be employed in the post-construction phases.

The greatest potential obstacle to plans for incorporating large numbers of territorial residents, particularly native residents, may be that of a shortage of persons - regardless of qualifications. However, since one of the objectives of that of increasing the size of the permanent labour force and improving the quality of that labour force, it is important to examine it in order to identify the potential problems of unskilled labour.



## CHAPTER 5

TERRITORIAL LABOUR SUPPLY BASE FOR PIPELINE ACTIVITIESDemand

Part 2 of Volume 6 is concerned with the basic picture of the territorial labour supply as it relates to pipeline construction requirements, primarily in terms of quality rather than quantity. In Chapter 3, above, the estimated total labour requirements for pipeline construction are given,<sup>1/</sup> along with classifications of pipeline jobs according to training and/or work experience required.<sup>2/</sup> In Chapter 4, the total estimated jobs are broken down according to those most likely to be available to or within reach of territorial residents.<sup>3/</sup> At the peak of construction, an estimated total of 6,500 workers will be required, of which it is estimated that 3,500 could be territorial residents. The important questions to be answered in the near future are: 1) will there be enough territorial residents to fill all or a significant portion of the total number of jobs estimated as being open to them; 2) what proportion of the territorial experienced work force, and of the potential labour force, has the necessary relevant work experience or training to allow them to readily adapt to pipeline work. Chapter 5 is concerned with providing information in attempts to answer the latter question.

Basic Skill Inventory

Pipeline-related skills have been divided into classes according to the degree of formal education and training and directly related work experience required. The four skill classes are comprised of certain occupations of which there is a total of 93 separate occupations. On the basis of data obtained from the D.I.A.N.D. Northern Manpower Survey Program, those territorial residents having work experience relevant to estimated pipeline construction requirements have been grouped according to skill classes, as shown in Table 15.

Assessment of supply in relation to requirements is made difficult by the fact that many of the occupations listed in each skill class are repeated or duplicated in succeeding skill classes. That is, a number of the occupations listed in Skill Class I are also required in Skill Class II, III, occupations listed in Skill Class II are called for again in III, IV, and so on. On the assumption that all four skill classes will be required at the same time during the greater part of the pipeline construction phase, a far larger number of skilled workers will be needed than just the number

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<sup>1/</sup> Volume 6, Part 2, Chapter 3, Tables 4, 8.

<sup>2/</sup> Ibid., Table 5.

<sup>3/</sup> Ibid., Chapter 4, Tables 11, 13.



called for in the first skill class in which particular occupations are called for. In order to give a more accurate presentation of territorial labour supply, therefore, persons having relevant skills on the basis of work experience at the time of the manpower survey, are listed only in their particular occupation in the first skill class in which that occupation appears. That is, welders are called for in Skill Classes I and II. All those whose work experience or their most recent occupation<sup>1/</sup> showed them as being welders were listed only in Skill Class I. Skill Class IV is composed entirely of skills classified under preceding classes. Thus, in Tables 15 and 16, which are concerned with supply, the numbers of workers available having work experience called for by Skill Class IV have been shown in brackets.

Some important points are apparent from the summary presented in Table 15. Both native and non-native representation is rather low for Skill Class I, the category for highly trained and experienced workers. Class I occupations of territorial residents, particularly the native residents, are predominantly those related to heavy equipment operation. The representation of native residents in each class increases in the latter groups, reaching a maximum in Skill Class III, which is largely made up of general labourers, drivers and in Skill Class IV which duplicates most of the general work occupations shown in Classes II and III.

Table 16 presents a summary for the N.W.T. on an individual occupation within skill class basis, from which the representation by occupation may be seen. Table 16 indicates: 1) non-natives represent only a tiny sample, since they were not covered in any other manpower survey except the Mackenzie, and there only on a small sample basis; 2) data for the "rest of the N.W.T." (natives only in the Keewatin, Baffin and Arctic Coast regions) are somewhat dated.<sup>2/</sup> Nevertheless,

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<sup>1/</sup> The DIAND Manpower Survey obtained information on all types of work which people had done in the 12-month survey period, and on any other types of work (occupations different from those shown for the survey year) in the preceding seven years. For the survey period, "first" occupation was that which was either the most recent, or the type of work done for the longest period of time during the survey year.

<sup>2/</sup> The Keewatin Survey covered mid-1968 to mid-1969; the Baffin and Arctic Coast Surveys both apply to calendar year 1969, while the Mackenzie Survey covered the period October 1, 1969 to September 30, 1970.

Table 15

SUMMARY INVENTORY OF NUMBERS OF PERSONS HAVING PIPELINE RELATED SKILLS BY SKILL CLASS,<sup>1/</sup>  
ETHNIC ORIGIN AND BY SETTLEMENT FOR MACKENZIE IMPACT CORRIDOR AND N.W.T.

|                                 | Class I |            | Class II |            | Class III |            | Class IV |            | Total Classes     |            |
|---------------------------------|---------|------------|----------|------------|-----------|------------|----------|------------|-------------------|------------|
|                                 | Native  | Non-Native | Native   | Non-Native | Native    | Non-Native | Native   | Non-Native | I, II, III Native | Non-Native |
| <u>Upper Mackenzie Region</u>   |         |            |          |            |           |            |          |            |                   |            |
| Fort Simpson                    | 5       | 2          | 10       | 8          | 25        | 10         | (23)     | (1)        | 40                | 20         |
| Fort Liard                      | -       | -          | 2        | 1          | 2         | -          | (13)     | -          | 4                 | 1          |
| Fort Providence                 | 3       | -          | 3        | -          | 19        | -          | (15)     | -          | 25                | -          |
| Fort Wrigley                    | 1       | -          | 4        | 2          | 13        | -          | (13)     | -          | 18                | 2          |
| Jean Marie River                | 1       | -          | 1        | -          | 3         | -          | (12)     | -          | 5                 | -          |
| Nahanni Butte                   | -       | -          | -        | -          | -         | -          | -        | -          | -                 | -          |
| Trout Lake                      | -       | -          | -        | -          | -         | -          | -        | -          | -                 | -          |
| Hay River                       | 10      | 22         | 19       | 132        | 45        | 97         | (40)     | (26)       | 74                | 251        |
| Total Region                    | 20      | 24         | 39       | 143        | 107       | 107        | (96)     | (27)       | 166               | 274        |
| <u>Central Mackenzie Region</u> |         |            |          |            |           |            |          |            |                   |            |
| Norman Wells                    | -       | 2          | -        | 18         | -         | 5          | -        | (6)        | -                 | 25         |
| Colville Lake                   | -       | -          | -        | -          | 11        | -          | (11)     | -          | 11                | -          |
| Fort Franklin                   | -       | -          | 11       | 8          | 26        | 3          | (26)     | (1)        | 37                | 11         |
| Fort Good Hope                  | -       | -          | 6        | 1          | 27        | 3          | (24)     | -          | 33                | 4          |
| Fort Norman                     | -       | -          | 9        | -          | 12        | 4          | (18)     | -          | 21                | 4          |
| Total Region                    | -       | 2          | 26       | 27         | 76        | 15         | (79)     | (7)        | 102               | 44         |
| <u>Lower Mackenzie Region</u>   |         |            |          |            |           |            |          |            |                   |            |
| Inuvik                          | 2       | 6          | 33       | 82         | 75        | 81         | (50)     | (22)       | 110               | 169        |
| Aklavik                         | 5       | -          | 11       | 1          | 58        | 9          | (46)     | (2)        | 74                | 10         |
| Arctic Red River                | 3       | -          | 3        | -          | 12        | -          | (11)     | -          | 18                | -          |
| Fort McPherson                  | 1       | -          | 10       | 1          | 71        | 2          | (66)     | -          | 82                | 3          |
| Tuktoyaktuk                     | 7       | -          | 15       | -          | 66        | -          | (34)     | -          | 88                | -          |
| Total Region                    | 18      | 6          | 72       | 84         | 282       | 92         | (207)    | (24)       | 372               | 182        |

<sup>1/</sup> Those defined in Volume 2, Part 2; Volume 6, Part 2, Chapter 3, Tables 5, 6.

Source: DIAND N.W.T. Manpower Survey Program; information for non-natives available on sample basis only for Mackenzie, not covered in rest of N.W.T.

Table 15 (cont'd)

SUMMARY INVENTORY OF NUMBERS OF PERSONS HAVING PIPELINE RELATED SKILLS BY SKILL CLASS,<sup>1/</sup>  
ETHNIC ORIGIN AND BY SETTLEMENT FOR MACKENZIE IMPACT CORRIDOR AND N.W.T.

|  | Class I |            | Class II |            | Class III |            | Class IV |            | Total Classes     |            |
|--|---------|------------|----------|------------|-----------|------------|----------|------------|-------------------|------------|
|  | Native  | Non-Native | Native   | Non-Native | Native    | Non-Native | Native   | Non-Native | I, II, III Native | Non-Native |
| <u>Lower Mackenzie Region (cont'd)</u> |         |            |          |            |           |            |          |            |                   |            |
| Total Impact Corridor                  | 38      | 32         | 137      | 254        | 465       | 214        | (382)    | (58)       | 640               | 500        |
| Yellowknife                            | 3       | 49         | 38       | 453        | 61        | 424        | (28)     | (85)       | 102               | 926        |
| Rest of Mackenzie                      | 21      | 43         | 87       | 238        | 135       | 164        | (112)    | (32)       | 243               | 445        |
| Total Mackenzie                        | 62      | 124        | 262      | 945        | 661       | 802        | (522)    | (175)      | 985               | 1,871      |
| Rest of N.W.T.                         | 42      | N/Av       | 265      | N/Av       | 1,236     | N/Av       | (1,168)  | N/Av       | 1,543             | N/Av       |
| Total N.W.T.                           | 104     | 124        | 527      | 945        | 1,897     | 802        | (1,690)  | (175)      | 2,528             | 1,871      |

<sup>1/</sup> Those defined in Volume 2, Part 2; Volume 6, Part 2, Chapter 3, Tables 5, 6.

Source: DIAND N.W.T. Manpower Survey Program; information for non-natives available on sample basis only for Mackenzie, not covered in rest of N.W.T.

Table 16

NUMBER OF PERSONS WHO HAVE PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>,  
BY ETHNIC ORIGIN IN MACKENZIE IMPACT CORRIDOR AND N.W.T.

| Group I       | Total Mackenzie<br>Impact Corridor |            | Yellowknife |            | Balance of<br>Mackenzie District |            | Total Mackenzie<br>District |            | Rest of<br>N.W.T.    |            | Total<br>N.W.T. |            | Grand<br>Total |
|---------------|------------------------------------|------------|-------------|------------|----------------------------------|------------|-----------------------------|------------|----------------------|------------|-----------------|------------|----------------|
|               | Native                             | Non-Native | Native      | Non-Native | Native                           | Non-Native | Native                      | Non-Native | Native <sup>2/</sup> | Non-Native | Native          | Non-Native |                |
|               |                                    |            |             |            |                                  |            |                             |            |                      |            |                 |            |                |
| 066           |                                    | 4          |             | 5          |                                  |            |                             | 9          |                      |            | 9               |            | 9              |
| 101           |                                    | 2          |             | 4          |                                  |            |                             | 6          |                      |            | 6               |            | 6              |
| 102           |                                    |            |             | 4          |                                  |            |                             | 4          |                      |            | 4               |            | 4              |
| 104           |                                    |            |             |            |                                  |            |                             |            |                      |            |                 |            |                |
| 105           |                                    |            |             |            |                                  |            |                             |            |                      |            |                 |            |                |
| 153           |                                    |            |             | 9          |                                  |            |                             | 9          |                      |            | 9               |            | 9              |
| 563**         |                                    |            |             | 1          |                                  |            |                             | 1          |                      |            | 1               |            | 1              |
| 817**         |                                    | 5          |             | 8          | 2                                | 4          | 2                           | 17         |                      | 2          | 17              |            | 19             |
| 851**         | 2                                  | 4          |             | 5          | 2                                | 1          | 4                           | 10         |                      | 4          | 10              |            | 14             |
| 876**         | 36                                 | 17         | 3           | 13         | 17                               | 38         | 56                          | 68         | 42                   | 98         | 68              |            | 166            |
| Total Group I | 38                                 | 32         | 3           | 49         | 21                               | 43         | 62                          | 124        | 42                   | 104        | 124             |            | 228            |
| Group II      |                                    |            |             |            |                                  |            |                             |            |                      |            |                 |            |                |
| 008           |                                    | 1          |             | 6          |                                  | 1          |                             | 8          |                      |            | 8               |            | 8              |
| 011           |                                    | 7          |             | 6          |                                  |            |                             | 13         |                      |            | 13              |            | 13             |
| 012           |                                    |            |             | 1          |                                  |            |                             | 1          |                      |            | 1               |            | 1              |
| 013           | 1                                  |            |             |            |                                  | 1          | 1                           | 1          |                      | 1          | 1               |            | 2              |
| 109           |                                    |            |             | 6          |                                  | 2          |                             | 8          |                      |            | 8               |            | 8              |
| 112           |                                    | 3          |             | 13         |                                  | 6          |                             | 22         |                      |            | 22              |            | 22             |
| 121           |                                    |            |             | 2          |                                  | 2          |                             | 4          |                      |            | 4               |            | 4              |
| 149           | 2                                  | 1          |             |            |                                  |            | 2                           | 1          |                      | 2          | 1               |            | 3              |
| 182**         |                                    |            |             | 4          |                                  | 1          |                             | 5          |                      |            | 5               |            | 5              |

<sup>1/</sup> Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Volume 6, Part 2, Chapter 3, Table 6 for occupations which apply to code numbers.

<sup>2/</sup> Information available only for natives (Eskimos) of the Keewatin, Baffin and Central Arctic Coast Regions. For non-native in Mackenzie, sample only, based on survey coverage of only 41 per cent of the total non-native corridor population, 52 per cent in the Mackenzie District.

\*\* Indicates need for particular occupation in one or more of the succeeding skill classes. Occupations so marked are counted only once, the first time they occur; in other classes, duplications are placed in brackets.

Source: DIAND Northern Manpower Survey Program.

Table 16 (cont'd)  
 NUMBER OF PERSONS WHO HAVE PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>,  
 BY ETHNIC ORIGIN IN MACKENZIE IMPACT CORRIDOR AND N.W.T.

| Group II (cont.) | Total Mackenzie Impact Corridor |            | Yellowknife |            | Balance of Mackenzie District |            | Total Mackenzie District |            | Rest of N.W.T. |            | Total N.W.T. |            | Grand Total |
|------------------|---------------------------------|------------|-------------|------------|-------------------------------|------------|--------------------------|------------|----------------|------------|--------------|------------|-------------|
|                  | Native                          | Non-Native | Native      | Non-Native | Native                        | Non-Native | Native                   | Non-Native | Native         | Non-Native | Native       | Non-Native |             |
|                  |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 183              | 2                               | 1          | 3           | 10         | 6                             | 17         | 5                        | 17         | 1              | 6          | 17           | 23         |             |
| 188              |                                 | 6          |             | 28         | 5                             | 39         |                          | 39         |                |            | 39           | 39         |             |
| 196              |                                 |            |             | 1          |                               | 1          |                          | 1          |                |            | 1            | 1          |             |
| 198              | 2                               | 21         |             | 16         | 2                             | 55         | 4                        | 55         |                | 4          | 55           | 59         |             |
| 199              |                                 | 3          | 1           | 7          |                               | 10         | 1                        | 10         |                | 1          | 10           | 11         |             |
| 212**            | 40                              | 45         | 2           | 46         | 17                            | 137        | 59                       | 137        | 72             | 131        | 137          | 268        |             |
| 214**            |                                 |            |             |            |                               | 3          |                          | 3          |                |            | 3            | 3          |             |
| 221**            |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 232**            | 2                               | 25         | 7           | 59         | 3                             | 96         | 12                       | 96         |                | 12         | 96           | 108        |             |
| 413              | 11                              | 18         | 3           | 27         | 10                            | 67         | 24                       | 67         | 14             | 38         | 67           | 105        |             |
| 459              | 1                               | 2          |             | 2          | 1                             | 6          | 2                        | 6          | 4              | 6          | 6            | 12         |             |
| 510              | 2                               | 12         | 2           | 10         | 2                             | 24         | 4                        | 24         |                | 4          | 24           | 28         |             |
| 520              | 3                               | 9          | 1           | 17         | 9                             | 35         | 4                        | 35         |                | 4          | 35           | 39         |             |
| 548              |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 556**            | 23                              | 21         | 5           | 32         | 8                             | 60         | 36                       | 60         | 32             | 68         | 60           | 128        |             |
| 557**            | 2                               |            |             | 1          | 2                             | 3          | 4                        | 3          | 23             | 27         | 3            | 30         |             |
| 563 (Gp. 1)      |                                 |            |             | (1)        |                               | (1)        |                          | (1)        |                |            | (1)          | (1)        |             |
| 702              |                                 | 1          | 1           | 3          |                               | 4          | 1                        | 4          | 1              | 2          | 4            | 6          |             |
| 751              | 2                               | 11         | 3           | 20         | 12                            | 52         | 17                       | 52         | 11             | 28         | 52           | 80         |             |
| 805              |                                 |            |             | 1          |                               | 4          |                          | 4          |                |            | 4            | 4          |             |
| 806              |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 808              |                                 |            |             | 1          |                               | 1          |                          | 1          |                |            | 1            | 1          |             |
| 810              | 1                               | 3          |             | 16         | 1                             | 27         | 2                        | 27         |                | 2          | 27           | 29         |             |
| 811              | 1                               | 1          |             | 6          |                               | 7          | 1                        | 7          | 1              | 2          | 7            | 9          |             |
| 813              |                                 |            | 1           | 1          |                               | 1          | 1                        | 1          |                | 1          | 1            | 2          |             |
| 817 (Gp. 1)      |                                 | (5)        |             | (8)        | (2)                           | (17)       | (2)                      | (17)       |                | (2)        | (17)         | (19)       |             |
| 821              |                                 | 5          |             | 9          | 1                             | 15         |                          | 15         |                |            | 15           | 15         |             |
| 822              | 4                               | 25         | 1           | 27         | 5                             | 93         | 10                       | 93         | 6              | 16         | 93           | 109        |             |
| 824**            |                                 | 9          |             |            |                               | 9          |                          | 9          |                |            | 9            | 9          |             |
| 831              | 13                              | 7          | 3           | 25         | 2                             | 35         | 18                       | 35         | 4              | 22         | 35           | 57         |             |
| 833              |                                 |            |             | 5          |                               | 5          |                          | 5          | 12             | 12         | 5            | 17         |             |
| 935              |                                 |            |             | 1          |                               | 1          |                          | 1          |                |            | 1            | 1          |             |
| 838              |                                 | 4          | 2           | 6          | 3                             | 14         | 5                        | 14         |                | 5          | 14           | 19         |             |
| 839              |                                 |            |             |            |                               | 1          |                          | 1          |                |            | 1            | 1          |             |
| 851 (Gp. 1)      | (2)                             | (4)        |             | (5)        | (2)                           | (10)       | (4)                      | (10)       |                | (4)        | (10)         | (14)       |             |



Table 16 (cont'd)  
 NUMBER OF PERSONS WHO HAVE PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>,  
 BY ETHNIC ORIGIN IN MACKENZIE IMPACT CORRIDOR AND N.W.T.

| Group II (cont.) | Total Mackenzie Impact Corridor |            | Yellowknife |            | Balance of Mackenzie District |            | Total Mackenzie District |            | Rest of N.W.T. |            | Total N.W.T. |            | Grand Total |
|------------------|---------------------------------|------------|-------------|------------|-------------------------------|------------|--------------------------|------------|----------------|------------|--------------|------------|-------------|
|                  | Native                          | Non-Native | Native      | Non-Native | Native                        | Non-Native | Native                   | Non-Native | Native         | Non-Native | Native       | Non-Native |             |
|                  |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 852**            |                                 | 2          |             | 1          |                               |            |                          | 3          |                |            |              | 3          | 3           |
| 855**            |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 872              | 2                               | 9          |             | 8          | 3                             | 9          | 5                        | 26         |                | 5          | 26           |            | 31          |
| 874              |                                 |            |             | 13         |                               |            |                          | 13         |                |            | 13           |            | 13          |
| 875              |                                 |            |             | 2          |                               |            |                          | 2          |                |            | 2            |            | 2           |
| 876 (Gp. 1)      | (36)                            | (21)       | (3)         | (13)       | (17)                          | (38)       | (56)                     | (72)       | (42)           | (98)       | (72)         |            | (170)       |
| 877**            |                                 |            |             | 1          |                               |            |                          | 1          | 2              | 2          | 1            |            | 3           |
| 900**            | 1                               |            |             | 1          |                               | 1          | 1                        | 2          |                | 1          | 2            |            | 2           |
| 928**            | 22                              | 2          | 3           | 9          | 18                            | 2          | 43                       | 13         | 82             | 125        | 13           |            | 138         |
| Total Group II   | 137                             | 254        | 38          | 453        | 87                            | 238        | 262                      | 945        | 265            | 527        | 945          |            | 1,472       |
| Group III        |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 009              | 2                               | 26         | 5           | 10         | 7                             | 36         | 14                       | 72         | 1              | 15         | 72           |            | 87          |
| 014              | 1                               |            | 1           |            |                               |            | 2                        |            |                | 2          |              |            | 2           |
| 182**(Gp. 11)    |                                 |            |             | (4)        |                               | (1)        |                          | (5)        |                |            | (5)          |            | (5)         |
| 201              | 1                               | 18         |             | 45         | 2                             | 4          | 3                        | 67         |                | 3          | 67           |            | 70          |
| 203              |                                 |            |             | 3          |                               | 2          |                          | 5          |                |            | 5            |            | 15          |
| 212 (Gp. 11)     | (40)                            | (45)       | (2)         | (46)       | (17)                          | (46)       | (59)                     | (137)      | (72)           | (131)      | (137)        |            | (268)       |
| 214 (Gp. 11)     |                                 |            |             | (3)        |                               |            |                          | (3)        |                |            | (3)          |            | (3)         |
| 221 (Gp. 11)     |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 232 (Gp. 11)     | (2)                             | (25)       | (7)         | (59)       | (3)                           | (12)       | (12)                     | (96)       |                | (12)       | (96)         |            | (108)       |
| 234              | 3                               | 11         | 3           | 42         | 3                             | 9          | 9                        | 62         | 6              | 15         | 62           |            | 77          |
| 249              | 18                              | 67         | 13          | 183        | 9                             | 58         | 40                       | 308        | 32             | 72         | 308          |            | 380         |
| 405              | 3                               | 3          |             | 7          | 1                             | 2          | 4                        | 12         | 3              | 7          | 12           |            | 19          |
| 415              | 27                              | 17         | 5           | 35         | 7                             | 8          | 39                       | 60         | 4              | 43         | 60           |            | 103         |
| 459 (Gp. 11)     | (1)                             | (2)        |             | (2)        | (1)                           | (2)        | (2)                      | (6)        | (3)            | (5)        | (6)          |            | (11)        |
| 551              |                                 | 2          | 1           | 1          | 2                             | 2          | 1                        | 5          |                | 1          | 5            |            | 6           |
| 556 (Gp. 11)     | (23)                            | (21)       | (5)         | (32)       | (8)                           | (7)        | (36)                     | (60)       | (32)           | (68)       | (60)         |            | (128)       |
| 557              | (2)                             |            |             | (1)        | (2)                           | (2)        | (4)                      | (3)        | (23)           | (27)       | (3)          |            | (30)        |
| 569              |                                 | 2          |             | 1          | 2                             |            | 2                        | 3          |                | 2          | 3            |            | 5           |
| 611              |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 615**            | 12                              | 1          |             | 1          | 8                             | 4          | 20                       | 6          |                | 20         | 6            |            | 26          |
| 760              |                                 |            |             |            |                               |            |                          |            | 1              |            |              |            | 1           |

Table 16 (cont'd)  
 NUMBER OF PERSONS WHO HAVE PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>,  
 BY ETHNIC ORIGIN IN MACKENZIE IMPACT CORRIDOR AND N.W.T.

|                   | Total Mackenzie Impact Corridor |            | Yellowknife |            | Balance of Mackenzie District |            | Total Mackenzie District |            | Rest of N.W.T. |            | Total N.W.T. |            | Grand Total |
|-------------------|---------------------------------|------------|-------------|------------|-------------------------------|------------|--------------------------|------------|----------------|------------|--------------|------------|-------------|
|                   | Native                          | Non-Native | Native      | Non-Native | Native                        | Non-Native | Native                   | Non-Native | Native         | Non-Native | Native       | Non-Native |             |
| Group III (cont.) |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 820               |                                 |            |             |            |                               |            |                          |            | 2              |            | 2            |            | 2           |
| 823               |                                 | 1          |             |            |                               |            | 1                        |            | 1              |            | 1            |            | 2           |
| 824 (Gp. 11)      |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 827               |                                 | 2          |             |            |                               |            | 1                        | 8          | 1              |            | 2            | 10         | 12          |
| 828               |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 851 (Gp. 1, 11)   | (2)                             | (4)        |             | (5)        |                               | (2)        | (4)                      | (1)        |                |            | (4)          | (10)       | (14)        |
| 852               |                                 | (2)        |             | (1)        |                               |            |                          |            |                |            |              | (2)        | (2)         |
| 855               |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 859**             |                                 | 1          |             | 1          |                               | (17)       | (38)                     |            | (42)           |            | 2            |            | 2           |
| 876 (Gp. 1, 11)   | (36)                            | (17)       | (3)         | (13)       |                               |            | (56)                     |            | (2)            |            | (68)         |            | (166)       |
| 877 (Gp. 11)      |                                 |            |             | (1)        |                               | 1          | 1                        | 1          |                |            | 1            |            | 2           |
| 878**             |                                 |            |             |            |                               |            | 4                        |            |                |            | 4            |            | 4           |
| 881**             | 4                               |            |             | 3          |                               | 1          | 1                        | 3          |                |            | 15           |            | 16          |
| 882**             |                                 | 9          |             | (1)        |                               |            |                          | (1)        |                |            | (2)          |            | (2)         |
| 900 (Gp. 11)      |                                 |            |             | 39         |                               | 61         | 378                      | 13         | 1,055          |            | 79           |            | 1,512       |
| 920**             | 299                             | 27         | 18          | 15         |                               | 11         | 56                       | 2          | 64             |            | 120          |            | 145         |
| 921               | 39                              | 8          | 6           | 4          |                               |            | 1                        | 1          | 12             |            | 13           |            | 18          |
| 922               | 1                               |            |             | 4          |                               |            | 3                        | 1          | 7              |            | 10           |            | 17          |
| 923               | 2                               | 2          |             | 4          |                               | 1          | 3                        | 1          | 4              |            | 7            |            | 14          |
| 924               | 3                               | 4          |             | 2          |                               |            | 3                        | 1          |                |            |              |            |             |
| 925**             | 31                              | 8          | 6           | 21         |                               | 18         | 55                       | 6          | 26             |            | 81           |            | 116         |
| 926**             | 10                              | 2          | 1           | 3          |                               | 2          | 13                       |            | 1              |            | 14           |            | 19          |
| 928 (Gp. 11)      | (22)                            | (2)        | (3)         | (9)        |                               | (18)       | (43)                     | (2)        | (82)           |            | (125)        |            | (138)       |
| 929**             |                                 |            |             |            |                               |            |                          |            | 1              |            | 1            |            | 1           |
| 930               | 1                               |            |             |            |                               |            | 1                        |            |                |            | 1            |            | 1           |
| 931               |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 932               | 8                               | 3          | 2           | 4          |                               |            | 10                       | 3          | 14             |            | 24           | 10         | 34          |
| Total Group III   | 465                             | 214        | 61          | 424        | 135                           | 164        | 661                      | 802        | 1,236          | 1,897      | 802          |            | 2,699       |

Table 16 (cont'd)

NUMBER OF PERSONS WHO HAVE PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>,  
BY ETHNIC ORIGIN IN MACKENZIE IMPACT CORRIDOR AND N.W.T.

| Group IV           | Total Mackenzie Impact Corridor |            | Yellowknife |            | Balance of Mackenzie District |            | Total Mackenzie District |            | Rest of N.W.T. |            | Total N.W.T. |            | Grand Total |
|--------------------|---------------------------------|------------|-------------|------------|-------------------------------|------------|--------------------------|------------|----------------|------------|--------------|------------|-------------|
|                    | Native                          | Non-Native | Native      | Non-Native | Native                        | Non-Native | Native                   | Non-Native | Native         | Non-Native | Native       | Non-Native |             |
|                    |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 459 (Gp. 11,111)   | (1)                             | (2)        | (2)         | (2)        | (1)                           | (2)        | (2)                      | (6)        | (3)            | (5)        | (6)          | (11)       | (11)        |
| 569 (Gp. 111)      |                                 | (2)        |             |            | (2)                           |            | (2)                      | (2)        |                | (2)        | (2)          | (4)        | (4)         |
| 615 (Gp. 111)      | (12)                            | (1)        | (1)         | (4)        | (8)                           | (4)        | (20)                     | (6)        |                | (20)       | (6)          | (26)       | (26)        |
| 851 (Gp. 1,11,111) | (2)                             | (4)        | (5)         | (1)        | (2)                           | (1)        | (4)                      | (10)       |                | (4)        | (10)         | (14)       | (14)        |
| 859 (Gp. 111)      |                                 | (1)        | (1)         |            |                               |            |                          | (2)        |                |            | (2)          | (2)        | (2)         |
| 878 (Gp. 111)      |                                 |            |             | (1)        | (1)                           | (1)        | (1)                      | (1)        |                | (1)        | (1)          | (2)        | (2)         |
| 879                |                                 |            |             |            |                               |            |                          |            |                |            |              |            |             |
| 881 (Gp. 111)      | (4)                             |            |             |            | (1)                           | (3)        | (4)                      | (15)       |                | (4)        | (15)         | (4)        | (4)         |
| 882 (Gp. 111)      |                                 | (9)        | (3)         | (1)        | (1)                           |            | (1)                      | (1)        |                | (1)        | (1)          | (16)       | (16)        |
| 900 (Gp. 11,111)   | (1)                             |            | (1)         |            |                               |            |                          |            |                |            |              | (2)        | (2)         |
| 920 (Gp. 111)      | (299)                           | (27)       | (18)        | (39)       | (61)                          | (13)       | (378)                    | (79)       | (1,055)        | (1,433)    | (79)         | (1,512)    | (1,512)     |
| 925 (Gp. 111)      | (31)                            | (8)        | (6)         | (21)       | (16)                          | (6)        | (53)                     | (35)       | (26)           | (79)       | (35)         | (114)      | (114)       |
| 926 (Gp. 111)      | (10)                            | (2)        | (1)         | (3)        | (2)                           |            | (13)                     | (5)        | (1)            | (14)       | (5)          | (19)       | (19)        |
| 928 (Gp. 11,111)   | (22)                            | (2)        | (3)         | (9)        | (18)                          | (2)        | (43)                     | (13)       | (82)           | (125)      | (13)         | (138)      | (138)       |
| 929 (Gp. 111)      |                                 |            |             |            |                               |            |                          |            | (1)            | (1)        |              | (1)        | (1)         |
| Total Group IV     | (382)                           | (58)       | (28)        | (85)       | (112)                         | (32)       | (522)                    | (175)      | (1,168)        | (1,690)    | (175)        | (1,865)    | (1,865)     |
| Total Groups I-III | 640                             | 500        | 102         | 926        | 243                           | 445        | 985                      | 1,871      | 1,543          | 2,528      | 1,871        | 4,399      | 4,399       |

the material does serve to indicate the general level of experience held by northern native residents, and that the bulk of the work force can only be classified under the heading of general labour.<sup>1/</sup>

Appendix 21 contains a detailed occupational inventory by settlement and region for the Mackenzie Impact Corridor. This appendix shows that the Central Mackenzie Impact Region had the fewest qualified/experienced native workers for possible pipeline work, only 102 native residents with possible pipeline-related work experience, compared with 372 in the Lower Mackenzie Impact Region, 166 in the Upper Mackenzie Region.<sup>2/</sup> From Appendices 1 and 2, it may be seen that the Central Mackenzie Region residents were also the least qualified in terms of formal academic training, trades training and trades certification. While more current information would be required than that provided by the Mackenzie Manpower Survey (1969-70) to determine if the Central Mackenzie Region is still the lowest on the scale, it is evident that considerable emphasis must be placed on up-grading residents of the region. Such up-grading in terms of both formal training and work experience would be desirable even if there were no possibilities for pipeline work in the region. If the intent of government is to include as many territorial residents, native residents, as possible in pipeline work, some programs aimed at involving the Central Mackenzie people will be required.

Within Table 16, comparison of the background experience of the native population within the Impact Corridor with that of the balance of the Mackenzie District and that of the rest of the N.W.T. is most interesting. In all three primary Skill Class Groups (Skill Class IV not counted because it is a duplication of I through III), the numbers of native workers from the rest of the N.W.T. with the relevant occupations compare favourably with the numbers from the Mackenzie District, and from the Impact Corridor Region itself (Table 17). It is interesting to note that for Skill Class III, there is a higher proportion of natives with those particular skills in the Central and Eastern Arctic ("rest of N.W.T.") than within either the Impact Corridor or the total Mackenzie District. The Central and Eastern Arctic Region native residents compare favourably with Mackenzie District natives in Skill Class II, where the distribution is almost the same, but are not as well represented in Skill Class I.

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<sup>1/</sup> For the native residents covered in the Keewatin, Baffin and Arctic Coast Surveys, information on work experience came largely from records or directly from employers; information sources varied for the Mackenzie Survey. Assignment of much of the work experience to specific occupation categories was often difficult, owing to the variety of work done by many persons, most of whom were carried on pay lists as "labourers". Within the large body of labourers (code 920), therefore, there may be numbers of persons with higher levels of experience than that indicated by the term "labourer".

<sup>2/</sup> Based only on Skill Classes I through III, since occupations shown in IV are duplicated.



These comparisons will be of interest if plans are contemplated to "import" native workers from regions outside 1) the immediate corridor area, 2) outside the Mackenzie District.

### Supply Versus Demand

No attempt is made in Volume 6 to project either actual numbers of working age residents or the numbers of persons who will probably have pipeline-related experience for the years of estimated maximum pipeline activity.<sup>1/</sup> Some indication may be given, however, of the potential territorial labour supply on the basis of survey information on residents with relevant work experience.

In Table 12 of Chapter 4, above, the numbers of jobs estimated to be available to territorial residents are summarized according to each phase of the total gas pipeline project (construction through to operation, along with associated or ancillary activities.) Material classified according to specific occupations is given in Appendices 12 through 20. Using data from the manpower surveys on persons shown as having related work experience<sup>2/</sup> an indication of the basic quality of the local labour supply may be obtained, as well as some indication of the numbers of persons from which pipeline workers might be drawn.

In Table 18, the estimated total labour demand for the period of major pipeline construction and the estimated number of those total jobs designated as being open to territorial residents are shown, along with the numbers of territorial residents having the relevant pipeline-related experience. There is an estimated total of 4,735 jobs, of which 2,294, or 48 per cent have been defined as being available to territorial residents. Within the Impact Corridor, some 1,100 residents held relevant occupations; within the Mackenzie District<sup>3/</sup> 2,800 residents had the relevant work experience; within the rest of the N.W.T., some 1,500

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<sup>1/</sup> See Volume 7.

<sup>2/</sup> Using material on first or most recent occupations only, for those who replied to the survey as holding jobs or working in occupations which correspond to those defined in Volume 2 as being pipeline-related.

<sup>3/</sup> Those 33 settlements covered by the DIAND Mackenzie Manpower Survey /see Volume 6, Part 1, Chapter 1, Table 1).



Table 17

PERCENTAGE DISTRIBUTION OF NATIVE RESIDENTS HAVING PIPELINE-RELATED WORK EXPERIENCE  
BY SPECIFIED REGIONS OF N.W.T. BY SKILL CLASS

(Natives in Each Region by Skill Class as Per Cent of Total N.W.T. Natives in Each Skill Class)

|                                    | <u>Skill Classes</u> |           |            |                                     |
|------------------------------------|----------------------|-----------|------------|-------------------------------------|
|                                    | <u>I</u>             | <u>II</u> | <u>III</u> | <u>Total<br/>I-III</u><br><u>IV</u> |
| Impact Corridor                    | 36.5                 | 26.0      | 24.5       | 25.3 (22.6)                         |
| Total Mackenzie District <u>1/</u> | 59.6                 | 49.7      | 34.8       | 39.0 (30.9)                         |
| Rest of N.W.T. <u>2/</u>           | 40.4                 | 50.3      | 65.2       | 61.0 (69.1)                         |
| Total N.W.T.                       | 100.0                | 100.0     | 100.0      | 100.0                               |

1/ Includes Impact Corridor.

2/ Eskimos of Keewatin, Baffin and Central Arctic Coast Regions.

Source: DIAND N.W.T. Manpower Survey Program.

Table 18

COMPARISON OF LABOUR DEMAND IN JOBS POTENTIALLY AVAILABLE TO TERRITORIAL RESIDENTS TO NUMBERS  
OF TERRITORIAL RESIDENTS AVAILABLE <sup>1/</sup> FOR PERIOD OF MAJOR PIPELINE CONSTRUCTION

|                          | Total Jobs in Major Construction Period by Skill Class |                       |                |                |                |                |                |                     |
|--------------------------|--|-----------------------|----------------|----------------|----------------|----------------|----------------|---------------------|
|                          | Total Jobs in Period                                   |                       | I              |                | II             |                | III            |                     |
|                          | Total Jobs   | Terr. Res. Jobs       | Total Resident | Total Resident | Total Resident | Total Resident | Total Resident | Total Resident      |
| Total Demand             | 4,735  | 2,294                 | 1,235          | 0              | 1,340          | 134            | 1,397          | 763                 |
| Total Supply             |  |                       |                |                |                |                |                |                     |
| Corridor - Native        | 640  | (704) <sup>4/</sup>   | 38             |                | 137            |                | 465            | (382) <sup>5/</sup> |
| Non-native <sup>2/</sup> | 500  |                       | 32             |                | 254            |                | 254            | (58)                |
| Total                    | 1,140  |                       | 70             |                | 391            |                | 719            | (440)               |
| All Mackenzie - Native   | 985  | (1,182) <sup>4/</sup> | 62             |                | 262            |                | 661            | (552)               |
| Non-native <sup>2/</sup> | 1,871  |                       | 124            |                | 945            |                | 802            | (175)               |
| Total                    | 2,856  |                       | 186            |                | 1,207          |                | 1,463          | (697)               |
| Rest of N.W.T. - Native  | 1,543  | (1,928) <sup>4/</sup> | 42             |                | 265            |                | 1,236          | (1,168)             |
| Non-native <sup>3/</sup> | 500  |                       | 30             |                | 200            |                | 150            | (120)               |
| Total                    | 2,043  |                       | 72             |                | 465            |                | 1,386          | (1,288)             |
| Total N.W.T. - Native    | 2,528  | (3,816) <sup>4/</sup> | 104            |                | 527            |                | 1,897          | (1,690)             |
| Non-native               | 2,375  |                       | 154            |                | 1,145          |                | 952            | (295)               |
| Total                    | 4,903  |                       | 258            |                | 1,672          |                | 2,849          | (1,985)             |

<sup>1/</sup> Those shown by manpower survey to have pipeline-related occupations.

<sup>2/</sup> Based on sample coverage only of Mackenzie District non-native population: 41 per cent of total corridor, 52 per cent of total district non-native population.

<sup>3/</sup> D.I.A.N.D. Manpower Surveys covered only Eskimos of Keewatin, Baffin, Central Arctic Coast Regions; figures are estimated for others.

<sup>4/</sup> Estimated numbers of native residents having relevant pipeline-related experience, estimations made to allow for increases in numbers of workers since the times of the various manpower surveys (see below).

<sup>5/</sup> Figures in brackets in this column not counted as part of potential total available pipeline work force since occupations in Skill Class IV are duplicating those called for in Classes I-III. That is, the demand exists for Class IV workers, but numbers comprising the supply are really only those shown in I-III.

Sources: DIAND Manpower Surveys; Volume 2, Part 2, Impact Study, and related background working papers.

natives and an estimated 500 non-natives<sup>1/</sup> had relevant work experience. For the N.W.T., then, approximately 2,500 natives and an estimated 2,300 non-natives would appear to be potentially able and capable of taking work on the pipeline. On a straight job demand versus labour supply, it would seem that the pipeline labour requirements could be largely filled from within the Territories, at least for the construction phase. Since the above estimations do not include those territorial residents who may have relevant training but were not necessarily working at the pipeline-specific occupations, and since none of those persons were included who in years preceding the manpower survey reference years may have worked in jobs which would give them pipeline-related experience, there would appear to be no immediately apparent reason why all those jobs shown as potentially available to territorial residents could not be filled by them.

### Labour Restrictions

It would be most unrealistic to assume that the resident territorial labour force could or would fill all pipeline jobs defined as being available to them. It has been estimated elsewhere in the impact study<sup>2/</sup> that only 50 per cent of those members of the territorial work force who appear<sup>3/</sup> to have the requisite qualifications for pipeline-related work would be able to or wish to take pipeline work. There are a number of reasons for making an assumption of this kind.

It is highly unlikely that all those members of the non-native resident<sup>4/</sup> territorial work force shown as having potential pipeline-related skills would in fact take pipeline work. The majority of the non-native population group who have the requisite pipeline-related qualifications are fully employed, either by government or private enterprise in the North. The largest proportion of those showing the higher order level of skills, those which would qualify them for work

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<sup>1/</sup> Non-natives were not covered by the DIAND Manpower Surveys for the Keewatin, Baffin and Central Arctic Coast Regions; therefore, estimations of potential non-native workers from these regions have been made on the basis of information on employment by territorial and federal government departments and agencies in these regions.

<sup>2/</sup> See Volumes 4, 7.

<sup>3/</sup> See Volume 7.

<sup>4/</sup> Transients will come North seeking work - as they always have. "Resident" has been applied to those covered by the manpower survey since the vast majority were employed in permanent jobs.

in (pipeline) Skill Class I, for example, are occupying positions of authority within government organizations or local businesses. Many are career civil servants who have established their homes in the North; others have established businesses. While a certain portion of those members of the non-native population covered by e.g., the D.I.A.N.D. Mackenzie Manpower Survey were in fact transients, persons on temporary jobs or in the district seeking work, most of those others surveyed were fairly permanent residents. It is reasonable to assume that the high wages likely to be earned in pipeline work will attract a certain proportion of the non-native population, but not in sufficient numbers to make up a large portion of the total required pipeline work force. It is, then, reasonable to assume that at least 95 per cent of those non-native members of the potential territorial resident pipeline work force having the necessary qualifications will not in fact take pipeline work. Other workers who would most likely take pipeline work would be those working in mines, those having relevant skills or experience who are receiving less pay than that obtainable on the pipelines; single men in labouring and trades classifications who would stand to earn more money in pipeline work than in their current work.

The figure given in Table 18 for the total number of non-native resident workers having pipeline-related skills is based on estimates and samples from the manpower surveys. Nevertheless, the figures may probably be regarded as a fair representation of the number of resident territorial non-natives having direct pipeline-related occupations in the non-pipeline base year. Expanding on the estimates made in Table 18 for the total number of territorial resident non-natives available for pipeline work, it is assumed that some 2,500 others (non-native) had the requisite skills for pipeline work. It is assumed that up to 95 per cent of these would not seek pipeline work (were construction to commence in the very near future), leaving approximately 125 who would. This leaves an estimated 2,500 native persons with pipeline-relevant experience, and would reduce the total base case potential territorial resident pipeline work force to approximately 2,700. However, further adjustments are required to attempt to adequately determine native residents who are potential pipeline workers.

The numbers of native workers shown in Table 18, 2,528, are those who have worked in occupations defined as being relevant to pipeline work. The D.I.A.N.D. Northern Manpower Survey program achieved quite good coverage of natives in all its phases.<sup>1/</sup> However, the

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<sup>1/</sup> Total Mackenzie survey region 92 per cent; Impact Corridor 87 per cent; Keewatin Region 99 per cent; Baffin Region 94 per cent; Central Arctic Coast Region 96 per cent.



information is somewhat out of date for some N.W.T. regions, particularly for the Keewatin Region.<sup>1/</sup> To allow for the likely increase in the numbers of natives who have since gained relevant experience, it is reasonable to boost the total base year figure by a certain percentage in each main region of the N.W.T., an average being around 18 per cent (Table 18).<sup>2/</sup> This would give an estimated base year figure of 3,800 native territorial residents with experience relevant to pipeline work. This could be regarded as the "high" or "maximum" side of the range; that figure shown in Table 18 (2,528) as the "low". While the maximum figure is high, it must be remembered that each year increasing numbers of native residents are taking work and gaining valuable work experience while other native residents are being trained.

However, a number of factors mitigate against the assembling of a native pipeline work force of between 2,500 and 3,800 persons, particularly in the initial stages of pre-construction and construction. Many of those native persons shown by the survey as having had the relevant occupational experience may have had very little in actual fact; many may be only casual or seasonal workers; many may not have actually done work which their listed occupations suggest. Close examination of their qualifications may in fact indicate that many lack adequate background experience for work other than general labouring.

The geographic distribution of the potential native pipeline work force will create problems in placing people for pipeline work. From Table 18 it may be seen that the largest proportion of workers live a considerable distance from the Impact Corridor. Using the figures from the manpower survey, the distribution is as follows: only 25 per cent of the total 2,528 come from the Impact Corridor; taking the N.W.T. as a whole, 47 per cent come from the total Mackenzie District, (i.e., those 33 settlements including corridor settlements covered by the Mackenzie Manpower Survey); the remaining workers come from the rest of the N.W.T., a rather vast region comprised of the Keewatin, Baffin and Central Arctic Coast Regions. Policy concerning the size of the recruitment area will be required; costs of bringing in and maintaining workers from the east coast of Baffin Island will be high. An additional consideration would be the feelings of the people themselves; how many persons from the Keewatin or Baffin will wish to come all the way to the Mackenzie Valley; how many will wish to stick it out once they have arrived?

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<sup>1/</sup> Keewatin: mid-1967 to mid-1968; Baffin and Central Arctic Coast: calendar year 1969; Mackenzie: October 1, 1969 to September 30, 1970.

<sup>2/</sup> Corridor 10 per cent; total Mackenzie 20 per cent; rest of N.W.T. 25 per cent.



## Conflicts

Possibly the most serious deterrent to early inclusion of large numbers of native workers in the pipeline work force will be the simple fact that other demands being made on the work force will exceed the supply. Work on the Mackenzie Highway construction program began in the Fort Simpson region in mid-summer of 1972. Attempts to place large numbers of native workers on the road were hampered for a time as a result of large numbers of them being involved in firefighting activities in the area. Fire-fighting work is known and understood by local residents; while difficult, it pays reasonably well, is outdoor work which usually takes place during the summer season, and it is near home. Many native workers have permanent jobs in their home communities or in communities reasonably near their home settlements.<sup>1/</sup> Others obtain fairly steady casual work for a good part of the year within or near their communities, balancing this with other activities, such as trapping.<sup>2/</sup> Others find work with oil or mineral exploration parties and in seasonal work balancing this with community work and other activities. Estimated times of commencement for pipeline construction, based on current information<sup>3/</sup> should see the construction of the Mackenzie Highway nearing completion in many places, thus removing one source of job conflict. However, there will always be conflicts of activities which will have to be taken into consideration when recruitment of native workers for pipeline work commences.<sup>4/</sup>

The entire territorial resident native potential labour force will not and cannot be involved in pipeline work. The vast majority of pipeline work will affect men only, and primarily able-bodied men. It is clear that the planning of training and placement programs cannot be limited just to pipeline work. Essential work in the communities must continue. In some communities, particularly those which are quite near the actual pipeline as division or staging points there would presumably be some increase in business and service activities. Provision will have to be made for those who are unable or unwilling to take pipeline work, but who may wish to work (or could be encouraged to join the active labour force) in or near their own communities. It is worth assessing the base year labour supply in terms of its potential for work other than on the pipeline, an examination which is carried out in Chapter 6.

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<sup>1/</sup> See Volume 4 for analysis of community activities and involvement of local workers.

<sup>2/</sup> Volume 5, hunting-trapping in the local economy of the corridor.

<sup>3/</sup> Volumes 2, 7.

<sup>4/</sup> Another factor would, of course, be the willingness or desire of many native workers to join the pipeline program.



## CHAPTER 6

### TERRITORIAL LABOUR SUPPLY BASE FOR NON-PIPELINE EMPLOYMENT

#### Community Employment

The government is the most active sector in most of the Impact Corridor settlements.<sup>1/</sup> Whether federal or territorial, the government is a large employer on either a permanent or season/casual basis. Because government has a wide range of responsibilities and activities in the North, it offers a considerable variety of work experience to the native labour force. Prior to about 1969, government was the largest employer in most parts of the North, even in the Mackenzie District. Results of the D.I.A.N.D. Mackenzie Manpower Survey revealed, however, that the private sector had considerably increased activities in the whole of the Mackenzie Valley and within the Impact Corridor, employing substantial numbers of native workers. Of those natives who reported wage employment during the survey year (October 1, 1969 - September 30, 1970), 54 per cent had worked for private employers, 46 per cent for government, territorial (21 per cent) and federal (25 per cent).<sup>2/</sup> Since that time, employment of natives in the private sector has doubtless increased significantly as a result of the increased activity in oil exploration and similar activities. In any event, the combination of private and government employers has provided work that over the years has permitted the local labour force to build up a substantial amount of background experience. In the previous chapter, those persons having experience relevant to direct pipeline work were examined. In an attempt to further define the quality of the corridor labour pool, a selection has been made of different occupations, those not represented in the pipeline-potential group. Table 19 summarizes the listing of these occupations for the corridor, the Mackenzie District and the N.W.T. A detailed break-down for the Impact Corridor settlements is contained in Appendix 22. The occupations listed here are those, excluding pipeline-oriented ones, which 1) had the largest number of persons represented; 2) were judged as fairly representative of the experience level of the northern labour force. These

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<sup>1/</sup> See Volume 4 for discussion and analysis of government and private activities within the corridor communities.

<sup>2/</sup> Volume 6, Part 1, Appendix 12; based on reporting of first or most recent occupations by employer, from Mackenzie Manpower Survey.

occupations were also selected for analysis because many may have relevance to pipeline work; others are more likely ones which would be required in any new pipeline communities, or in existing communities which might be expanded considerably in size as a result of pipeline activity.<sup>1/</sup> From Table 19, it is evident that in 1969-70, the largest proportion of the native work force was active in general labour occupations. For the N.W.T. as a whole, janitorial-caretaking accounted for the largest number of workers, followed by nursing assistants, with fire-fighting third. Within the Impact Corridor, the occupation comprising well drilling and related work was well represented, even though grossly underestimated, reflecting the activities of oil exploration largely within the area defined by the impact study as the Lower Mackenzie (Impact) Region.

The first 14 occupations on the total list of 31 are those which may be regarded as the most community-specific, and for the most part, the most unrelated to pipeline work. These occupations are ones which are required within the communities, and the jobs for which are also, for the most part, the ones least likely to be disrupted, i.e., abandoned by pipeline construction activities. They are also occupations for which training programs will be required in order to meet the anticipated increased demands for community services in those communities most likely to be directly affected by the pipeline - Inuvik, Fort Simpson, Norman Wells (see Volume 4).

The lower half of the list shown in Table 19, the remaining 17 occupations, is interesting in that it may be regarded as a sampling of both the private and government sectors. Native workers are not well represented in any of the bottom 17 occupations, some of which are community service or community-specific jobs, e.g., oil burner mechanic; some of which are in the major activities of the private sector in the North, e.g., petroleum and mineral exploration and development. The Mackenzie Manpower Survey refers to a 1969-70 time period; furthermore, it did not achieve complete coverage of the native resident population; it was deficient in the key area of occupations and employment.

It is now estimated that a new survey of the N.W.T. would reveal that substantial numbers of native residents have work experience from oil exploration activities in both the Mackenzie Delta area (Lower Mackenzie Impact Region) and in the Eastern Arctic. It would reveal larger numbers of natives

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<sup>1/</sup> See Volume 4.



Table 19

**SUMMARY INVENTORY OF SELECTED OCCUPATIONS INDICATING GENERAL SKILL LEVELS  
HELD BY RESIDENTS/14 YEARS OF AGE AND OVER BY ETHNIC ORIGIN  
MACKENZIE IMPACT CORRIDOR AND N.W.T.**

| Code | Occupation <sup>2/</sup>     | Total Mackenzie<br>Impact Corridor |            | Yellowknife |            | Balance of<br>Mackenzie District |            | Total Mackenzie<br>District |            | Rest of<br>N.W.T. |            | Total<br>N.W.T. |            | TOTAL |
|------|------------------------------|------------------------------------|------------|-------------|------------|----------------------------------|------------|-----------------------------|------------|-------------------|------------|-----------------|------------|-------|
|      |                              | Native                             | Non-Native | Native      | Non-Native | Native                           | Non-Native | Native                      | Non-Native | Natives           | Non-Native | Native          | Non-Native |       |
| 133  | Community Health Work        | 3                                  |            |             |            |                                  |            | 3                           |            |                   |            |                 |            |       |
| 137  | Interpreters                 |                                    | 1          | 1           |            | 1                                |            | 2                           |            | 24                |            | 3               |            | 3     |
| 139  | Teachers, Instructors        | 7                                  | 2          | 1           | 5          | 1                                |            | 9                           |            | 4                 | 1          | 26              | 1          | 27    |
|      | n.e.s.                       | 7                                  | 2          | 1           |            | 1                                |            | 9                           |            | 4                 | 15         | 13              | 15         | 28    |
| 142  | Nurses                       | 3                                  | 44         |             | 30         |                                  |            | 3                           |            | 4                 | 15         | 13              | 15         | 28    |
| 148  | Medical, dental technicians  |                                    |            |             | 6          |                                  |            |                             |            |                   | 95         | 3               | 95         | 98    |
| 150  | Practical nurses             | 2                                  |            |             |            | 1                                |            |                             |            |                   | 11         | 11              | 11         | 11    |
| 192  | Social Welfare worker        |                                    | 4          |             | 4          |                                  |            |                             |            | 1                 | 2          | 1               | 2          | 3     |
| 401  | Firemen, fire protection     | 9                                  | 1          | 1           |            | 1                                |            | 2                           |            |                   | 8          | 2               | 8          | 10    |
| 409  | R.C.M.P. Special Constable   | 4                                  | 2          | 13          | 8          | 28                               | 3          | 50                          |            |                   | 12         | 50              | 12         | 62    |
| 410  | Game Officer, Assistant      | 5                                  | 5          |             | 2          |                                  |            | 4                           |            | 10                | 4          | 14              | 4          | 18    |
| 416  | Nurses Assistant, Aides      | 15                                 | 14         | 1           | 3          | 3                                | 5          | 9                           |            | 2                 | 11         | 11              | 13         | 24    |
| 420  | Lay dispenser                | 2                                  |            | 2           | 12         | 38                               | 9          | 55                          |            | 13                | 68         | 35              | 35         | 103   |
| 454  | Janitors                     | 85                                 | 23         | 9           | 56         | 1                                |            | 3                           |            | 2                 | 5          | 5               |            | 5     |
| 471  | Social Services aide         | 5                                  |            | 33          |            | 33                               | 29         | 127                         |            | 157               | 284        | 108             |            | 392   |
| 541  | Deck officer, ship           | 2                                  |            | 7           |            | 7                                |            | 13                          |            |                   | 13         | 2               | 2          | 15    |
| 545  | Deck ratings, bargemen       | 8                                  |            |             |            |                                  | 1          |                             |            | 3                 | 4          | 4               | 4          | 4     |
| 552  | Taxi drivers chauffeur       | 4                                  |            |             | 6          | 3                                | 2          | 7                           |            |                   | 12         | 4               | 4          | 16    |
| 651  | Foremen, mine                |                                    |            | 1           |            |                                  | 25         | 2                           |            |                   | 7          | 12              | 19         | 19    |
| 652  | Prospectors                  | 1                                  |            | 4           |            | 2                                |            | 2                           |            | 2                 | 49         | 2               | 49         | 51    |
| 653  | Timbermen                    |                                    |            | 2           | 17         | 1                                |            | 5                           |            | 5                 | 7          | 5               | 7          | 12    |
| 654  | Miners, n.e.s.               |                                    |            |             | 66         | 1                                | 10         | 2                           |            | 2                 | 17         | 2               | 17         | 19    |
| 655  | Millmen                      |                                    |            |             | 25         | 2                                | 19         | 1                           |            |                   | 76         | 1               | 76         | 77    |
| 656  | Well Drillers and related    | 15                                 | 4          | 1           | 27         | 2                                | 3          | 3                           |            |                   | 44         | 3               | 44         | 47    |
| 657  | Labourers, mine              |                                    |            | 4           | 82         | 5                                | 19         | 18                          |            | 1                 | 34         | 19              | 34         | 53    |
| 658  | Miners, underground          |                                    |            |             | 34         |                                  | 17         | 9                           |            | 5                 | 101        | 14              | 101        | 115   |
| 659  | Quarry and related work      |                                    |            |             | 4          |                                  | 4          |                             |            |                   | 51         | 51              | 51         | 51    |
| 819  | Metalwork occupation, n.e.s. |                                    |            |             |            | 1                                |            |                             |            |                   | 8          | 8               | 8          | 8     |
| 830  | Oil Burner mechanics         |                                    |            |             | 1          |                                  | 1          |                             |            | 2                 | 1          | 1               | 1          | 1     |
| 871  | Boiler firemen (ex. ship)    |                                    |            |             | 1          |                                  |            |                             |            |                   | 2          | 2               | 2          | 3     |
| 883  | Labourer, sealift            |                                    |            |             |            |                                  |            |                             |            | 15                | 15         | 15              | 15         | 15    |
| 927  | Labourer, essential service  | 2                                  |            |             | 2          | 2                                |            |                             |            | 8                 | 12         | 2               | 14         | 14    |
|      | Total                        | 174                                | 119        | 43          | 429        | 132                              | 185        | 349                         | 733        | 251               | 600        | 733             |            | 1,333 |

1/ Small sample only (41 per cent) of non-native population; non-natives not covered in "Rest of N.W.T.".

2/ Codes are standard occupational codes used by Statistics Canada and in D.I.A.N.D. Northern Manpower Survey Program.

Source: D.I.A.N.D. Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970.



in more skilled occupations, and particularly in clerical-commercial types of work. It would also, however, show that the majority of native workers are still engaged in the general labourer classifications and in the semi-skilled jobs, e.g., trades helpers. It is estimated also that a breakdown of occupations held by natives in terms of the pipeline construction-oriented occupations would reveal that there are still very few workers capable of fitting readily into Skill Classes I and II.

The amount of lead time available to the federal and territorial governments for commencement of pipeline activities will directly affect the supply of native workers capable of fitting right into pipeline work at the initial stages. In the interim, policies by both levels of government concerning employment of natives will determine how many native residents will be able to obtain training and relevant, meaningful work experience under existing economic conditions in the N.W.T. That is, the extent of efforts to fit native workers into government jobs in a variety of occupational fields will determine just what experience they acquire.

At present, however, for purposes of the impact study, it is possible to attempt to judge the extent to which territorial native residents will be capable of fitting into pipeline work only on the basis of existing data sources, primarily the Mackenzie Manpower Survey and the other N.W.T. Manpower Surveys. With the exception of a small study done on certain selected Mackenzie Valley settlements,<sup>1/</sup> no updating of these surveys has been done, nor have any other surveys been carried out which would provide more current figures on employment, occupations, training. Therefore, despite its deficiencies, the N.W.T. Manpower Survey program must stand as the source of data, particularly on the territorial native population, for any assessment of the anticipated involvement of that population in pipeline work. Similarly, in the examination of likely training needs presented in Part 3, below, the manpower survey data are the only comprehensive ones available at the present time.

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<sup>1/</sup> "Settlement Council Labour Pools", a feasibility study done by Gemini North, Yellowknife, N.W.T., March, 1972, assessing the feasibility of establishing labour pools to be run by local community councils in the settlements of Aklavik, Fort Franklin, Fort Good Hope, Fort Norman, Fort McPherson, Tuktoyaktuk. This study does not, however, offer detailed information on current occupational breakdowns within the communities.

## Appendix 1

INVENTORY OF PERSONS HAVING TRAINING<sup>1</sup>/ RELATED TO PIPELINE CONSTRUCTION WORK  
BY ETHNIC ORIGIN AND SETTLEMENT MACKENZIE IMPACT CORRIDOR, N.W.T.

| Code<br>No. | Inuvik |            | Aklavik |            | Ft. McPherson |            | Arctic Red River |            | Tuktoyaktuk |            | Total Region |            |
|-------------|--------|------------|---------|------------|---------------|------------|------------------|------------|-------------|------------|--------------|------------|
|             | Native | Non-Native | Native  | Non-Native | Native        | Non-native | Native           | Non-native | Native      | Non-native | Native       | Non-native |
|             |        |            |         |            |               |            |                  |            |             |            |              |            |
| 005         | 1      |            |         |            |               |            |                  |            |             |            | 1            |            |
| 006         | 3      | 2          | 5       | 1          | 5             |            | 2                |            | 2           |            | 17           | 3          |
| 008         | 1      | 5          |         | 1          | 4             | 1          | 1                |            |             |            | 6            | 7          |
| 009         | 3      | 36         |         |            |               |            | 1                |            | 2           |            | 6            | 36         |
| 012         |        | 1          |         |            |               |            |                  |            |             |            |              | 1          |
| 013         |        |            | 3       |            |               |            |                  |            |             |            | 3            |            |
| 014         |        | 6          |         |            |               |            |                  |            |             |            |              | 6          |
| 015         |        | 2          | 1       |            |               |            |                  |            |             |            | 1            | 2          |
| 020         | 5      |            | 3       |            | 6             |            |                  |            | 2           |            | 16           |            |
| 021         |        | 3          |         |            |               |            |                  |            |             |            |              | 3          |
| 022         |        |            |         |            | 2             |            |                  |            | 1           |            | 3            |            |
| 023         |        | 2          | 3       | 1          | 1             |            |                  |            |             |            | 4            | 3          |
| 024         |        | 2          |         |            |               | 1          |                  |            |             |            | 3            | 3          |
| 025         | 1      | 15         | 2       |            | 2             |            | 1                |            | 1           |            | 7            | 15         |
| 026         |        |            |         |            |               |            |                  |            |             |            |              |            |
| 027         |        |            |         |            |               |            |                  |            |             |            |              |            |
| 028         |        | 4          |         |            |               |            |                  |            | 1           |            | 1            | 4          |
| 029         |        | 2          |         | 1          |               |            |                  |            |             |            |              | 3          |
| 031         |        |            |         |            |               |            |                  |            |             |            |              |            |
| 033         |        |            |         |            |               |            |                  |            | 1           |            | 1            |            |
| 034         | 1      | 3          |         | 1          |               |            |                  |            |             |            | 1            | 4          |
| 035         | 1      |            | 2       |            |               |            | 1                |            |             |            | 1            |            |
| 037         |        |            |         | 1          |               |            |                  |            |             |            | 4            |            |
| 040         | 3      | 7          | 1       |            | 2             |            |                  |            |             |            | 6            | 1          |
| 045         |        |            | 1       |            |               |            |                  |            | 1           |            | 2            | 7          |
| 047         |        |            |         |            |               |            |                  |            |             |            | 1            |            |
| 048         | 5      | 8          |         | 1          |               |            | 1                |            |             |            | 5            | 9          |
| 049         |        | 1          | 1       |            |               |            |                  |            |             |            | 1            | 1          |

<sup>1</sup>/ See Table 1, Chapter 2, Page 2-10 for list of course names.

Source: DIAND Mackenzie Manpower Survey.

## Appendix 1 (cont'd)

INVENTORY OF PERSONS HAVING TRAINING<sup>1</sup>/ RELATED TO PIPELINE CONSTRUCTION WORK  
BY ETHNIC ORIGIN AND SETTLEMENT MACKENZIE IMPACT CORRIDOR, N.W.T.

## LOWER MACKENZIE REGION

| Code No. | Inuvik |            | Aklavik |            | Ft. McPherson |            | Arctic Red River |            | Tuktoyaktuk |            | Total Region |            |
|----------|--------|------------|---------|------------|---------------|------------|------------------|------------|-------------|------------|--------------|------------|
|          | Native | Non-native | Native  | Non-native | Native        | Non-native | Native           | Non-native | Native      | Non-native | Native       | Non-native |
| 050      | 1      |            | 1       |            |               |            |                  |            |             |            | 2            | 1          |
| 051      | 2      |            | 3       |            | 1             |            |                  | 4          |             |            | 10           | 2          |
| 052      |        | 1          |         | 1          |               |            |                  |            |             |            |              | 9          |
| 054      | 1      | 8          | 1       | 1          |               |            |                  | 1          |             |            | 3            | 3          |
| 055      | 1      | 1          |         | 2          | 1             |            |                  |            |             |            | 2            | 1          |
| 056      |        |            |         | 1          |               |            |                  |            |             |            |              | 8          |
| 060      | 1      | 7          |         |            |               | 1          |                  |            |             |            | 1            | 3          |
| 061      |        |            | 2       |            |               |            |                  | 1          |             |            | 3            | 8          |
| 064      |        | 8          |         |            | 3             |            |                  |            |             |            | 3            | 3          |
| 065      |        | 3          |         |            |               |            |                  |            |             |            |              |            |
| 068      |        |            | 1       |            |               |            |                  |            |             |            | 1            | 2          |
| 072      |        | 2          |         |            |               |            |                  |            |             |            | 2            | 2          |
| 073      |        | 2          |         |            |               |            |                  |            |             |            | 2            | 1          |
| 074      |        | 1          |         |            |               |            |                  |            |             |            | 1            | 5          |
| 075      |        | 5          |         |            |               |            |                  |            |             |            |              |            |
| 077      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 078      |        |            |         |            |               |            |                  |            |             |            |              | 4          |
| 080      |        | 4          |         |            |               |            |                  |            |             |            |              | 8          |
| 081      | 2      | 8          |         |            |               |            |                  |            |             |            | 2            |            |
| 083      |        |            |         |            |               |            |                  |            |             |            |              | 2          |
| 087      |        | 2          |         |            |               |            |                  |            |             |            |              |            |
| 088      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 089      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 090      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 094      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 095      |        |            |         |            |               |            |                  |            |             |            |              | 2          |
| 096      |        |            |         |            |               |            | 1                |            |             |            | 1            | 30         |
| 099      |        | 2          |         |            |               |            |                  |            |             |            | 1            | 19         |
| 102      |        | 20         |         | 6          |               | 4          |                  |            |             | 1          |              | 4          |
| 103      |        | 18         |         | 1          |               |            |                  |            |             |            |              |            |
| 104      |        | 3          |         |            |               | 1          |                  |            |             |            |              |            |

## Appendix 1 (cont'd)

INVENTORY OF PERSONS HAVING TRAINING<sup>1</sup>/ RELATED TO PIPELINE CONSTRUCTION WORK  
BY ETHNIC ORIGIN AND SETTLEMENT MACKENZIE IMPACT CORRIDOR, N.W.T.

## LOWER MACKENZIE REGION

| Code No. | Inuvik |            | Aklavik |            | Ft. McPherson |            | Arctic Red River |            | Tuktoyaktuk |            | Total Region |            |
|----------|--------|------------|---------|------------|---------------|------------|------------------|------------|-------------|------------|--------------|------------|
|          | Native | Non-native | Native  | Non-native | Native        | Non-native | Native           | Non-native | Native      | Non-native | Native       | Non-native |
| 105      |        | 33         |         | 3          |               | 2          |                  |            |             |            | 38           |            |
| 107      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 118      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 119      |        | 5          |         | 1          |               |            |                  |            |             |            | 6            |            |
| 120      |        | 2          |         |            |               |            |                  |            |             |            | 2            |            |
| 121      |        | 4          |         |            |               |            |                  |            |             |            | 4            |            |
| 124      | 1      | 8          |         | 1          |               |            |                  |            |             | 1          | 9            |            |
| 129      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 133      |        | 1          |         |            |               |            |                  |            |             |            | 1            |            |
| 138      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 139      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 140      |        | 1          |         |            |               |            |                  |            |             |            | 1            |            |
| 141      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 201      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 202      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 204      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 208      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 315      |        | 2          |         |            |               |            |                  |            |             |            | 2            |            |
| 319      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 325      |        | 1          |         |            |               |            |                  |            |             |            | 1            |            |
| 327      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 328      |        | 1          |         |            |               |            |                  |            |             |            | 1            |            |
| 329      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 330      |        | 1          |         |            |               |            |                  |            |             |            | 1            |            |
| 331      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 340      |        | 1          |         |            |               |            |                  |            |             |            | 1            |            |
| 345      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 350      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 353      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 355      |        | 1          |         |            |               |            |                  |            |             |            | 1            |            |
| 358      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 362      |        |            |         |            |               |            |                  |            |             |            |              |            |
| 370      |        |            |         |            |               |            |                  |            |             |            |              |            |
| Total    | 33     | 254        | 30      | 25         | 27            | 10         | 8                | 0          | 18          | 0          | 116          | 289        |

## Appendix I (cont'd)

INVENTORY OF PERSONS HAVING TRAINING<sup>1</sup>/ RELATED TO PIPELINE CONSTRUCTION WORK  
BY ETHNIC ORIGIN AND SETTLEMENT MACKENZIE IMPACT CORRIDOR N.W.T.

| CENTRAL MACKENZIE REGION |              |            |               |            |              |            |               |            |            |            |              |            |
|--------------------------|--------------|------------|---------------|------------|--------------|------------|---------------|------------|------------|------------|--------------|------------|
| Code No.                 | Norman Wells |            | Colville Lake |            | Ft. Franklin |            | Ft. Good Hope |            | Ft. Norman |            | Total Region |            |
|                          | Native       | Non-native | Native        | Non-native | Native       | Non-native | Native        | Non-native | Native     | Non-native | Native       | Non-native |
| 005                      |              |            |               |            |              |            | 3             |            |            |            | 3            |            |
| 006                      |              |            |               |            |              |            | 1             |            |            | 2          | 1            | 2          |
| 008                      |              |            |               |            |              |            |               |            |            |            |              | 3          |
| 009                      |              | 3          |               |            |              |            |               |            |            |            |              |            |
| 012                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 013                      |              |            |               |            |              |            |               |            |            |            |              | 3          |
| 014                      |              | 3          |               |            |              |            |               |            |            |            |              |            |
| 015                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 020                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 021                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 022                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 023                      |              | 3          |               |            |              |            | 1             |            | 1          |            | 1            | 4          |
| 024                      |              | 1          |               |            |              |            |               | 1          |            |            | 1            | 1          |
| 025                      |              | 3          |               |            |              |            | 2             |            |            |            | 2            | 3          |
| 026                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 027                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 028                      |              | 1          |               |            |              |            |               |            |            |            |              | 1          |
| 029                      |              |            |               |            |              |            |               |            |            | 1          |              | 1          |
| 031                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 033                      |              |            |               |            |              |            |               |            | 1          |            |              |            |
| 034                      |              |            |               |            |              |            |               |            |            |            | 2            | 1          |
| 035                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 037                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 040                      |              |            |               |            |              |            |               |            |            |            |              |            |
| 045                      |              |            |               |            |              |            |               |            |            |            | 1            |            |
| 047                      |              |            | 1             |            |              |            |               |            |            |            | 1            |            |
| 048                      |              |            |               |            |              | 2          |               |            |            |            |              | 2          |
| 049                      |              |            |               |            |              |            |               |            |            |            |              |            |





## Appendix 1 (cont'd)

INVENTORY OF PERSONS HAVING TRAINING<sup>1/</sup> RELATED TO PIPELINE CONSTRUCTION WORK  
BY ETHNIC ORIGIN AND SETTLEMENT MACKENZIE IMPACT CORRIDOR, N.W.T.

## CENTRAL MACKENZIE REGION

| Code No. | Norman Wells |            | Colville Lake |            | Ft. Franklin |            | Ft. Good Hope |            | Ft. Norman |            | Total Region |            |
|----------|--------------|------------|---------------|------------|--------------|------------|---------------|------------|------------|------------|--------------|------------|
|          | Native       | Non-native | Native        | Non-native | Native       | Non-native | Native        | Non-native | Native     | Non-native | Native       | Non-native |
| 105      |              | 5          |               |            | 1            |            | 1             |            | 3          |            | 1            | 10         |
| 107      |              |            |               |            | 1            |            |               |            |            |            |              | 1          |
| 118      |              | 1          |               |            |              |            |               |            |            |            |              | 1          |
| 119      |              |            |               |            |              |            | 1             |            | 2          |            |              | 3          |
| 120      |              |            |               |            |              |            | 1             |            |            |            |              | 1          |
| 121      |              |            |               |            |              |            |               |            |            |            |              |            |
| 124      |              | 4          |               |            |              |            |               |            |            |            |              | 4          |
| 129      |              |            |               |            |              |            |               |            |            |            |              |            |
| 133      |              |            |               |            |              |            |               |            |            |            |              |            |
| 138      |              |            |               |            |              |            |               |            |            |            |              |            |
| 139      |              |            |               |            |              |            |               |            |            |            |              |            |
| 140      |              |            |               |            |              |            |               |            |            |            |              |            |
| 141      |              |            |               |            |              |            |               |            |            |            |              |            |
| 201      |              |            |               |            |              |            |               |            |            |            |              |            |
| 202      |              |            |               |            |              |            |               |            |            |            |              |            |
| 204      |              |            |               |            |              |            |               |            |            |            |              |            |
| 208      |              |            |               |            |              |            |               |            |            |            |              |            |
| 315      |              |            |               |            |              |            |               |            |            |            |              |            |
| 319      |              |            |               |            |              |            |               |            |            |            |              |            |
| 325      |              |            |               |            |              |            |               |            |            |            |              |            |
| 327      |              |            |               |            |              |            |               |            |            |            |              |            |
| 328      |              |            |               |            |              |            |               |            |            |            |              |            |
| 329      |              |            |               |            |              |            |               |            |            |            |              |            |
| 330      |              |            |               |            |              |            |               |            |            |            |              |            |
| 331      |              |            |               |            |              |            |               |            |            |            |              |            |
| 340      |              |            |               |            |              |            |               |            |            |            |              |            |
| 345      |              |            |               |            |              |            |               |            |            |            |              |            |
| 350      |              |            |               |            |              |            |               |            |            |            |              |            |
| 353      |              |            |               |            |              |            |               |            |            |            |              |            |
| 355      |              |            |               |            |              |            |               |            |            |            |              |            |
| 358      |              |            |               |            |              |            |               |            |            |            |              |            |
| 362      |              |            |               |            |              |            |               |            |            |            |              |            |
| 370      |              |            |               |            |              |            |               |            |            |            |              |            |
| Total    | 1            | 31         | 1             | 0          | 2            | 7          | 10            | 5          | 1          | 13         | 15           | 56         |

## Appendix 1 (cont'd)

INVENTORY OF PERSONS HAVING TRAINING<sup>1</sup>/ RELATED TO PIPELINE CONSTRUCTION WORKS  
BY ETHNIC ORIGIN AND SETTLEMENT MACKENZIE IMPACT CORRIDOR N.W.T.

## UPPER MACKENZIE REGION

[illegible]

## Appendix 1 (cont'd)

INVENTORY OF PERSONS HAVING TRAINING<sup>1/</sup> RELATED TO PIPELINE CONSTRUCTION WORK  
BY ETHNIC ORIGIN AND SETTLEMENT MACKENZIE IMPACT CORRIDOR, N.W.T.

## UPPER MACKENZIE REGION

[illegible]

## Appendix 1 (cont'd)

INVENTORY OF PERSONS HAVING TRAINING<sup>1</sup>/ RELATED TO PIPELINE CONSTRUCTION WORK  
BY ETHNIC ORIGIN AND SETTLEMENT MACKENZIE IMPACT CORRIDOR, N.W.T.

## UPPER MACKENZIE REGION

| Code<br>No. | Ft. Simpson |            | Ft. Liard |            | Ft. Providence |            | Ft. Wrigley |            | Jean Marie River |            | Nahanni Butte |            | Trout Lake |            | Hay River |            | Total Region |            |
|-------------|-------------|------------|-----------|------------|----------------|------------|-------------|------------|------------------|------------|---------------|------------|------------|------------|-----------|------------|--------------|------------|
|             | Native      | Non-Native | Native    | Non-Native | Native         | Non-Native | Native      | Non-Native | Native           | Non-Native | Native        | Non-Native | Native     | Non-Native | Native    | Non-Native | Native       | Non-Native |
| 105         |             | 7          |           |            |                |            |             |            |                  |            |               |            |            |            |           | 29         | 36           |            |
| 107         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 1          | 1            |            |
| 118         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 1          | 1            |            |
| 119         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 5          | 6            |            |
| 120         |             |            | 1         |            | 1              |            |             |            |                  |            |               |            |            |            |           | 3          | 1            |            |
| 121         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 4          | 3            |            |
| 124         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 2          | 2            |            |
| 129         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 4          | 4            |            |
| 133         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 138         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 139         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 140         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 141         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 201         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 202         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 1          | 1            |            |
| 204         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 2          | 2            |            |
| 208         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 1          | 1            |            |
| 315         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 1          | 1            |            |
| 319         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 2          | 2            |            |
| 325         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 327         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 1          | 1            |            |
| 328         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 1          | 1            |            |
| 329         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            | 1         | 1          | 1            |            |
| 330         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 331         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 340         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 1          | 1            |            |
| 345         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           | 1          | 1            |            |
| 350         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 353         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 355         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 358         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 362         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 370         |             |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| Total 13    | 36          | 10         | 4         | 12         | 1              | 3          | 8           | 5          | 0                | 1          | 0             | 0          | 0          | 0          | 19        | 303        | 63           | 352        |



# APPENDIX 2

## NUMBER OF RESIDENTS HOLDING TRADE AND JOURNEYMENS' CERTIFICATES\*

### BY ETHNIC ORIGIN AND SETTLEMENT IN THE

#### MACKENZIE IMPACT CORRIDOR, N.W.T.

#### Lower Mackenzie Region

| Settlement       | Tradesmen's<br>Qualification<br>Certificate<br>(Provinces) | Journeymen's<br>Certificate<br>(Territories) | Trades<br>Certificate | Other<br>Certificate | Certificate<br>Not<br>Specified | Total |
|------------------|--|--|-----------------------|----------------------|---------------------------------|-------|
| Aklavik          | Native   | -  | -                     | -                    | -                               | -     |
|                  | Non-native   | 1  | 1                     | -                    | -                               | 2     |
| Arctic Red River | Native   | -  | -                     | -                    | -                               | -     |
|                  | Non-native   | -  | -                     | -                    | -                               | -     |
| Fort McPherson   | Native   | -  | 1                     | -                    | 1                               | 2     |
|                  | Non-native   | -  | -                     | 1                    | -                               | 1     |
| Inuvik           | Native   | -  | 2                     | -                    | -                               | 3     |
|                  | Non-native   | 14   | 12                    | 4                    | 9                               | 45    |
| Tuktoyaktuk      | Native   | 2  | 1                     | -                    | 1                               | 4     |
|                  | Non-native   | -  | -                     | -                    | -                               | -     |
| Total            | Native   | 2  | 4                     | -                    | 2                               | 9     |
|                  | Non-native   | 15   | 13                    | 5                    | 9                               | 48    |

\*Males Only

Source: D.I.A.N.D. Mackenzie Manpower Survey, Oct. 1, 1969 - Sept. 30, 1970, Table 12.

## NUMBER OF RESIDENTS HOLDING TRADE AND JOURNEYMEN'S CERTIFICATES\*

## BY ETHNIC ORIGIN AND SETTLEMENT IN THE

## MACKENZIE IMPACT CORRIDOR, N.W.T.

| Settlement     | Central Mackenzie Region                                   |  |                      |                      |                                 | Certificate<br>Not<br>Specified | Other<br>Certificate | Total |
|----------------|--|--|----------------------|----------------------|---------------------------------|---------------------------------|----------------------|-------|
|                | Tradesmen's<br>Qualification<br>Certificate<br>(Provinces) | Journeymen's<br>Certificate<br>(Territories) | Trade<br>Certificate | Other<br>Certificate | Certificate<br>Not<br>Specified |                                 |                      |       |
| Colville Lake  | -  | -  | -                    | -                    | -                               | -                               | -                    | -     |
| Fort Franklin  | -  | -  | -                    | -                    | -                               | -                               | -                    | -     |
| Fort Good Hope | -  | -  | 1                    | -                    | -                               | -                               | -                    | 1     |
| Fort Norman    | -  | -  | -                    | -                    | -                               | -                               | -                    | -     |
| Norman Wells   | -  | -  | -                    | -                    | 1                               | -                               | -                    | 1     |
|                | -  | -  | 8                    | -                    | 2                               | -                               | -                    | 10    |
| Total          | -  | -  | 1                    | -                    | -                               | -                               | -                    | 1     |
|                | -  | -  | 9                    | -                    | 3                               | -                               | -                    | 12    |

\*Males only.

Source: D.I.A.N.D. Mackenzie Manpower Survey, Oct. 1, 1969 - Sept. 30, 1970, Table 12.

# APPENDIX 2 (cont'd)

## NUMBER OF RESIDENTS HOLDING TRADE AND JOURNEYMEN'S CERTIFICATES\*

### BY ETHNIC ORIGIN AND SETTLEMENT IN THE

#### MACKENZIE IMPACT CORRIDOR, N.W.T.

#### Upper Mackenzie Region

| Settlement       | Tradesmen's<br>Qualification<br>Certificate<br>(Provinces) | Journeymen's<br>Certificate<br>(Territories) | Trade<br>Certificate | Other<br>Certificate | Certificate<br>Not<br>Specified | Total |
|------------------|--|--|----------------------|----------------------|---------------------------------|-------|
| Fort Liard       | -  | -  | -                    | -                    | -                               | -     |
|                  | Native   | -  | -                    | -                    | -                               | -     |
|                  | Non-native   | -  | -                    | -                    | -                               | -     |
| Fort Providence  | -  | 1  | -                    | 3                    | -                               | 4     |
|                  | Native   | -  | -                    | -                    | -                               | -     |
|                  | Non-native   | -  | -                    | -                    | -                               | -     |
| Fort Simpson     | -  | -  | 1                    | -                    | 1                               | 2     |
|                  | Native   | 1  | -                    | -                    | 3                               | 4     |
|                  | Non-native   | -  | -                    | -                    | -                               | -     |
| Fort Wrigley     | -  | -  | -                    | -                    | -                               | -     |
|                  | Native   | -  | -                    | -                    | -                               | -     |
|                  | Non-native   | -  | -                    | -                    | -                               | -     |
| Jean Marie River | -  | -  | -                    | -                    | -                               | -     |
|                  | Native   | -  | -                    | -                    | -                               | -     |
|                  | Non-native   | -  | -                    | -                    | -                               | -     |
| Nahanni Butte    | -  | -  | -                    | -                    | -                               | -     |
|                  | Native   | -  | -                    | -                    | -                               | -     |
|                  | Non-native   | -  | -                    | -                    | -                               | -     |
| Trout Lake       | -  | -  | -                    | -                    | -                               | -     |
|                  | Native   | -  | -                    | -                    | -                               | -     |
|                  | Non-native   | -  | -                    | -                    | -                               | -     |
| Hay River        | -  | 1  | 1                    | -                    | -                               | 2     |
|                  | Native   | 15   | 17                   | 3                    | 9                               | 53    |
|                  | Non Native   | -  | -                    | -                    | -                               | -     |
| Total            | -  | 2  | 2                    | 3                    | 1                               | 8     |
|                  | Native   | 16   | 17                   | 3                    | 12                              | 57    |
|                  | Non-native   | 9  | -                    | -                    | -                               | -     |

**TOTAL PIPELINE CONSTRUCTION JOB REQUIREMENTS  
DURING PERIOD OF MAJOR PIPE CONSTRUCTION**

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |              |              |            |
|--|--|---|---------------------------------------|---|--------------|--------------|------------|
|  |  |   |                                       | I   | II           | III          | IV         |
| 12                                     | Foremen  | 510, 611, 851, 900                        | 151                                   | 80  | 59           | 10           | 2          |
| 26                                     | Principal Operators                            | 874, 876, 877                             | 819                                   | 475   | 262          | 82           | -          |
| 18                                     | Mechanics                                      | 821, 822                                  | 123                                   | 53  | 70           | -            | -          |
| 19                                     | Mechanic's Helper                              | 823, 827, 924                             | 137                                   | -   | 38           | 75           | 24         |
| 21                                     | Oilers   | 878                                       | 147                                   | -   | 50           | 76           | 21         |
| 16                                     | Labour (Pipelaying<br>and Compressor)          | 615, 859, 920, 926,<br>928                | 1,136                                 | -   | 114          | 454          | 568        |
| 8                                      | Drivers (Truck & Bus)                          | 551, 556                                  | 611                                   | 24  | 281          | 306          | -          |
| 35                                     | Welders  | 817                                       | 630                                   | 523   | 107          | -            | -          |
| 36                                     | Welder's Helpers                               | 920, 928                                  | 687                                   | -   | 206          | 343          | 138        |
| 11                                     | Engineers                                      | 109, 199                                  | 24                                    | 14  | 10           | -            | -          |
| 33                                     | Technicians                                    | 182, 198, 852                             | 43                                    | 6   | 32           | 5            | -          |
| 31                                     | Surveyors                                      | 183, 198                                  | 24                                    | 2   | 22           | -            | -          |
| 32                                     | Surveyor's Assistant                           | 182, 198, 852                             | 62                                    | -   | 15           | 37           | 10         |
| 29                                     | Superintendents                                | 010, 109, 851                             | 28                                    | 21  | 7            | -            | -          |
| 30                                     | Superintendent's Assist.                       | .851                                      | 14                                    | 6   | 8            | -            | -          |
| 28                                     | Safety Staff                                   | 104, 143, 149                             | 19                                    | 7   | 12           | -            | -          |
| 22                                     | Office Managers                                | 006, 188                                  | 19                                    | 11  | 8            | -            | -          |
| 23                                     | Office Manager's Assist.                       | 201, 203, 232, 405                        | 14                                    | 5   | 7            | 2            | -          |
| 2                                      | Administ. Trainee                              | 014, 212, 214                             | 24                                    | -   | 17           | 7            | -          |
| 27                                     | Purchasing Agent                               | 008                                       | 9                                     | 4   | 5            | -            | -          |
| 34                                     | Warehousing                                    | 882                                       | 14                                    | 4   | 10           | -            | -          |
|  | <b>TOTAL</b>                                   |   | <b>4,735</b>                          | <b>1,235</b>  | <b>1,340</b> | <b>1,397</b> | <b>763</b> |
|  | <b>Maximum Estimate</b>                        |   | <b>5,446</b>                          | <b>1,421</b>  | <b>1,541</b> | <b>1,607</b> | <b>877</b> |
|  | <b>Minimum Estimate</b>                        |   | <b>4,025</b>                          | <b>1,051</b>  | <b>1,139</b> | <b>1 187</b> | <b>648</b> |

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Appendix 3 (cont'd)

1/ See Chapter 2, Table 4.

2/ Based on Intermediate Estimate.

3/ See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.



## Appendix 4

TOTAL COMPRESSOR STATIONS AND FACILITY CONSTRUCTION JOB REQUIREMENTS  
DURING PERIOD OF MAJOR PIPE CONSTRUCTION

| Pipeline Impact Study<br>Code No. |  | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |     |     |    |
|-----------------------------------|--|--|---|---------------------------------------|---|-----|-----|----|
|                                   |  |  |   |                                       | I   | II  | III | IV |
| 12                                |  | Foremen  | 851, 900                                  | 16                                    | 10  | 6   | -   | -  |
| 26                                |  | Principal Operators                            | 874, 876, 877                             | 47                                    | 12  | 31  | 4   | -  |
| 11                                |  | Engineers                                      | 102, 109                                  | 8                                     | 6   | 2   | -   | -  |
| 33                                |  | Technicians                                    | 182, 198, 852                             | 31                                    | 6   | 25  | -   | -  |
| 3                                 |  | Carpenters                                     | 751, 930                                  | 47                                    | -   | 37  | 10  | -  |
| 20                                |  | Millwrights                                    | 805, 806, 808, 810,<br>811, 813           | 127                                   | 34  | 86  | 7   | -  |
| 9                                 |  | Electricians                                   | 831, 839                                  | 47                                    | 16  | 31  | -   | -  |
| 5                                 |  | Clerical                                       | 249                                       | 16                                    | -   | 13  | 3   | -  |
| 13                                |  | Inspectors                                     | 852                                       | 31                                    | 6   | 23  | 2   | -  |
| 4                                 |  | Carpenter Apprentice                           | 760, 921                                  | 47                                    | -   | 31  | 16  | -  |
| 25                                |  | Plumber Apprentice                             | 820, 923                                  | 47                                    | -   | 31  | 16  | -  |
| 10                                |  | Electrician Apprentice                         | 922                                       | 47                                    | -   | 31  | 16  | -  |
| 22                                |  | Office Manager                                 | 006, 010, 188                             | 16                                    | 3   | 13  | -   | -  |
| 16                                |  | Labour (Pipelaying<br>and Compressor)          | 855, 859, 928                             | 166                                   | -   | 53  | 75  | 38 |
| 27                                |  | Purchasing Agent                               | 008                                       | 16                                    | 6   | 10  | -   | -  |
| 34                                |  | Warehousing                                    | 882                                       | 16                                    | 1   | 13  | 2   | -  |
|                                   |  | TOTAL  |   | 725                                   | 100   | 436 | 151 | 38 |
|                                   |  | Maximum Estimate                               |   | 834                                   | 115   | 501 | 173 | 45 |
|                                   |  | Minimum Estimate                               |   | 616                                   | 85  | 370 | 128 | 33 |

- 1/ See Chapter 2, Table 4.  
 2/ Based on Intermediate Estimate.  
 3/ See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

## Appendix 5

TOTAL COMPRESSOR STATION AND FACILITY CONSTRUCTION JOBS IN  
POST PIPE COMPRESSOR AND FACILITY CONSTRUCTION PERIOD(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |     |     |    |
|--|--|---|---------------------------------------|---|-----|-----|----|
|  |  |   |                                       | I   | II  | III | IV |
| 12                                     | Foremen  | 851, 900                                  | 9                                     | 6   | 3   | -   | -  |
| 26                                     | Principal Operators                            | 874, 876, 877                             | 27                                    | 7   | 17  | 3   | -  |
| 11                                     | Engineers                                      | 102, 109                                  | 5                                     | 4   | 1   | -   | -  |
| 33                                     | Technicians                                    | 182, 198, 852                             | 18                                    | 4   | 14  | -   | -  |
| 3                                      | Carpenters                                     | 751, 930                                  | 27                                    | -   | 21  | 6   | -  |
| 20                                     | Millwrights                                    | 805, 806, 808, 810, 811, 813              | 75                                    | 20  | 51  | 4   | -  |
| 9                                      | Electricians                                   | 831, 839                                  | 27                                    | 9   | 18  | -   | -  |
| 5                                      | Clerical                                       | 249                                       | 9                                     | -   | 7   | 2   | -  |
| 13                                     | Inspectors                                     | 852                                       | 18                                    | 4   | 13  | 1   | -  |
| 4                                      | Carpenter Apprentice                           | 760, 921                                  | 28                                    | -   | 18  | 10  | -  |
| 25                                     | Plumber Apprentice                             | 820, 923                                  | 28                                    | -   | 18  | 10  | -  |
| 10                                     | Electrician Apprentice                         | 922                                       | 28                                    | -   | 18  | 10  | -  |
| 22                                     | Office Manager                                 | 006, 010, 188                             | 9                                     | 2   | 7   | -   | -  |
| 16                                     | Labour (Pipelaying<br>and Compressor)          | 855, 859, 928                             | 27                                    | -   | 31  | 44  | 22 |
| 27                                     | Purchasing Agent                               | 008                                       | 9                                     | 3   | 6   | -   | -  |
| 34                                     | Warehousing                                    | 882                                       | 9                                     | -   | 8   | 1   | -  |
|  | TOTAL  |   | 423                                   | 59  | 251 | 91  | 22 |
|  | Maximum Estimate                               |   | 487                                   | 68  | 289 | 105 | 25 |
|  | Minimum Estimate                               |   | 359                                   | 50  | 213 | 77  | 19 |

<sup>1/</sup> See Chapter 2, Table 4.<sup>2/</sup> Based on Intermediate Estimate.<sup>3/</sup> See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

## Appendix 6

TOTAL OFF-SITE TRANSPORTATION AND HANDLING JOBS DURING PERIOD  
OF MAJOR PIPE CONSTRUCTION(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Impact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period |       | Jobs in Each Skill <sup>3/</sup><br>Class in Period |   |     |     |    |
|-----------------------------------|--|---|---------------------------------------|-------|---|---|-----|-----|----|
|                                   |  |   | NWT                                   | Yukon | Total   | I | II  | III | IV |
|                                   |  |   |                                       |       |   |   |     |     |    |
| 12                                | Foremen  | 510, 900                                  | 11                                    | 3     | 14  | - | 5   | 9   | -  |
| 26                                | Principal Operators <sup>4/</sup>              | 874, 876, 877, 520, 541                   | 51                                    | 2     | 53  | - | 40  | 13  | -  |
| 18                                | Mechanics                                      | 822                                       | 4                                     | 7     | 11  | - | 11  | -   | -  |
| 19                                | Mechanic's Helper <sup>5/</sup>                | 823                                       | 4                                     | 7     | 11  | - | 3   | 5   | 3  |
| 17                                | Labour/Warehousing                             | 881, 882, 920, 545, 547                   | 91                                    | 23    | 114   | - | -   | 46  | 68 |
| 8                                 | Truck Drivers                                  | 556                                       | 39                                    | 55    | 94  | - | 80  | 14  | -  |
| 2                                 | Administrative Trainee                         | 014, 212, 214                             | 2                                     | 4     | 6   | - | 3   | 3   | -  |
| 1                                 | Accountant                                     | 234                                       | 1                                     | 3     | 4   | - | 1   | 3   | -  |
| 23                                | Office Assistant                               | 232                                       | 1                                     | 2     | 3   | - | 1   | 2   | -  |
|                                   | TOTAL  |   | 204                                   | 106   | 310   | 0 | 144 | 95  | 71 |
|                                   | Maximum Estimate                               |   |                                       |       | 356   | 0 | 165 | 109 | 82 |
|                                   | Minimum Estimate                               |   |                                       |       | 264   | 0 | 123 | 81  | 60 |

<sup>1/</sup> See Chapter 2, Table 4.<sup>2/</sup> Based on Intermediate Estimate.<sup>3/</sup> See Chapter 2, Table 3.<sup>4/</sup> Includes flight crews and tug crews.  
(Principal Operators 520, 541).<sup>5/</sup> Includes flight crews and tug crews.  
(Labour/Warehousing 545, 547).

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

## Appendix 7

TOTAL OFF-SITE TRANSPORTATION JOB REQUIREMENTS IN POST PIPE  
COMPRESSOR AND FACILITY CONSTRUCTION PERIOD(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |    |     |    |
|--|--|---|---------------------------------------|---|----|-----|----|
|  |  |   |                                       | I   | II | III | IV |
| 12                                     | Foremen  | 510, 900                                  | 3                                     | -   | 1  | 2   | -  |
| 26                                     | Principal Operators <sup>4/</sup>              | 520, 874, 876, 877                        | 9                                     | -   | 7  | 2   | -  |
| 18                                     | Mechanics                                      | 822                                       | -                                     | -   | -  | -   | -  |
| 19                                     | Mechanic's Helper                              | 823                                       | -                                     | -   | -  | -   | -  |
| 17                                     | Labour/Warehousing                             | 881, 882, 920                             | 34                                    | -   | -  | 14  | 20 |
| 8                                      | Truck Drivers                                  | 556                                       | 2                                     | -   | -  | 2   | -  |
| 2                                      | Adminst. Trainee                               | 014, 212, 214                             | 1                                     | -   | -  | 1   | -  |
| 1                                      | Accountant                                     | 234                                       | -                                     | -   | -  | -   | -  |
| 23                                     | Office Assistant                               | 232                                       | -                                     | -   | -  | -   | -  |
|  | TOTAL  |   | 49                                    | 0   | 8  | 21  | 20 |
|  | Maximum Estimate                               |   |                                       | 0   | 9  | 24  | 23 |
|  | Minimum Estimate                               |   |                                       | 0   | 7  | 18  | 17 |

<sup>4/</sup> Includes flight crews (520).<sup>1/</sup> See Chapter 2, Table 4.<sup>2/</sup> Based on Intermediate Estimate.<sup>3/</sup> See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

CATERING AND CAMP OPERATING JOBS  
DURING PERIOD OF MAJOR PIPE CONSTRUCTION

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey                          |  |  |                                       | Jobs in Each Skill <sup>3/</sup><br>Class in Period |     |     |     |
|--|--|--|--|--|---------------------------------------|---|-----|-----|-----|
|  |  | Occupation Codes                               |  |  |                                       | I   | II  | III | IV  |
|  |  |  |  |  | Total Jobs <sup>2/</sup><br>in Period |   |     |     |     |
| 22                                     | Manager  | 006, 010                                       |  |  | 35                                    | 4   | 30  | 1   | -   |
| 2                                      | Assistant Manager                              | 009, 014                                       |  |  | 42                                    | -   | 31  | 11  | -   |
| 6                                      | Cooks  | 413, 702                                       |  |  | 77                                    | -   | 65  | 12  | -   |
| 7                                      | Cook's Helper                                  | 415, 459, 925                                  |  |  | 215                                   | -   | 31  | 118 | 66  |
| 14                                     | Labour   | 405, 454, 459, 760, 920,<br>921, 927, 930, 931 |  |  | 253                                   | -   | 38  | 89  | 126 |
| 3                                      | Carpenters                                     | 751  |  |  | 69                                    | -   | 41  | 28  | -   |
| 24                                     | Other Trades                                   | 810, 830, 831, 838, 859                        |  |  | 31                                    | -   | 20  | 8   | 3   |
| 23                                     | Clerical                                       | 201, 203, 212, 214, 249                        |  |  | 46                                    | -   | 28  | 16  | 2   |
|  | TOTAL  |  |  |  | 768                                   | 4   | 284 | 283 | 197 |
|  | Maximum Estimate                               |  |  |  |                                       | 4   | 327 | 325 | 227 |
|  | Minimum Estimate                               |  |  |  |                                       | 3   | 242 | 240 | 168 |

1/ See Chapter 2, Table 4.

2/ Based on Intermediate Estimate.

3/ See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.



# Appendix 9

## CATERING AND CAMP OPERATING JOBS IN POST PIPE COMPRESSOR AND FACILITY CONSTRUCTION PERIOD

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code. No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes      | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |    |     |    |
|---|--|--|---------------------------------------|---|----|-----|----|
|   |  |  |                                       | I   | II | III | IV |
| 22                                      | Manager  | 006, 010                                       | 3                                     | 1   | 2  | -   | -  |
| 2                                       | Assistant Manager                              | 009, 014                                       | 4                                     | -   | 3  | 1   | -  |
| 6                                       | Cooks  | 413, 702                                       | 6                                     | -   | 5  | 1   | -  |
| 7                                       | Cook's Helper                                  | 415, 459, 925                                  | 18                                    | -   | 3  | 9   | 6  |
| 14                                      | Labour   | 405, 454, 459, 760, 920,<br>921, 927, 930, 931 | 21                                    | -   | 3  | 8   | 10 |
| 3                                       | Carpenters                                     | 751  | 6                                     | -   | 4  | 2   | -  |
| 24                                      | Other Trades                                   | 810, 830, 831, 838, 859                        | 3                                     | -   | 2  | 1   | -  |
| 23                                      | Clerical                                       | 201, 203, 212, 214, 249                        | 4                                     | -   | 3  | 1   | -  |
|   | TOTAL  |  | 65                                    | 1   | 25 | 23  | 16 |
|   | Maximum Estimate                               |  |                                       |   |    |     |    |
|   | Minimum Estimate                               |  |                                       |   |    |     |    |
|   |  |  | 75                                    | 1   | 29 | 27  | 18 |
|   |  |  | 55                                    | 1   | 21 | 19  | 14 |

1/ See Chapter 2, Table 4.

2/ Based on Intermediate Estimate.

3/ See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

OPERATION AND MAINTENANCE STAFF JOBS IN POST PIPE  
COMPRESSOR AND FACILITY CONSTRUCTION PERIOD

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period | I  | II | III | IV |
|--|--|---|---------------------------------------|---|----|----|-----|----|
| 11                                     | Managerial                                     | 010, 102, 104, 109                        | 4                                     | 1   | 3  | 1  | -   | -  |
| 11                                     | Engineering                                    | 102, 104, 109                             | 1                                     | -   | 1  | -  | -   | -  |
| 33                                     | Technicians                                    | 198                                       | 25                                    | 17  | 8  | 17 | -   | -  |
| 22                                     | Administration                                 | 006, 009                                  | 2                                     | 2   | -  | 2  | -   | -  |
| 23                                     | Clerical                                       | 212, 232, 249                             | 9                                     | 5   | -  | 4  | -   | -  |
| 26                                     | Pilots   | 520                                       | 4                                     | 4   | -  | 4  | -   | -  |
| 24                                     | Aircraft Mechanics                             | 821                                       | 1                                     | 1   | -  | 1  | -   | -  |
| 24                                     | Machinists                                     | 802                                       | 2                                     | 2   | -  | 2  | -   | -  |
| 27                                     | Purchasing                                     | 008                                       | 1                                     | 1   | -  | 1  | -   | -  |
| 34                                     | Warehousing                                    | 882                                       | 1                                     | -   | -  | -  | -   | -  |
| 12                                     | Foremen  | 851, 900                                  | 5                                     | 4   | -  | -  | 1   | -  |
| 26                                     | Equipment Operators                            | 876                                       | 4                                     | 3   | 1  | 3  | 1   | -  |
| 18                                     | Equipment Mechanics                            | 822                                       | 7                                     | 6   | 1  | 6  | -   | -  |
| 35                                     | Welders  | 817                                       | 6                                     | 3   | 3  | 3  | -   | -  |
| 8                                      | Truck Drivers                                  | 556                                       | 4                                     | -   | -  | -  | -   | -  |
| 15                                     | Labour (Operating and<br>Maintenance)          | 920, 926, 928                             | 13                                    | 1   | -  | 1  | 4   | 4  |
| 24                                     | Plumbers                                       | 810                                       | 2                                     | 2   | -  | 2  | -   | -  |
| 3                                      | Carpenters                                     | 751                                       | 4                                     | 4   | -  | 4  | -   | -  |
| 24                                     | Station Operators                              | 822, 834                                  | 7                                     | 3   | -  | 3  | 2   | 2  |
| 24                                     | Superintendents                                | 104, 199, 510                             | 3                                     | 2   | 1  | 2  | -   | -  |
|  | TOTAL  |   | 105                                   | 61  | 18 | 61 | 20  | 6  |
|  | Maximum Estimate                               |   | 121                                   | 70  | 21 | 70 | 23  | 7  |
|  | Minimum Estimate                               |   | 89                                    | 52  | 15 | 52 | 17  | 5  |

<sup>1/</sup> See Chapter 2, Table 4.

<sup>2/</sup> Based on Intermediate Estimate.

<sup>3/</sup> See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

# Appendix 11

## OPERATION AND MAINTENANCE STAFF; PERMANENT JOBS IN POST CONSTRUCTION CAPACITY OPERATION PERIOD

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |     |     |    |
|--|--|---|---------------------------------------|---|-----|-----|----|
|  |  |   |                                       | I   | II  | III | IV |
| 11                                     | Managerial                                     | 010, 102, 104, 109                        | 7                                     | 5   | 2   | -   | -  |
| 11                                     | Engineering                                    | 102, 104, 109                             | 2                                     | 2   | -   | -   | -  |
| 33                                     | Technicians                                    | 198                                       | 48                                    | 14  | 34  | -   | -  |
| 22                                     | Administration                                 | 006, 009                                  | 4                                     | 1   | 3   | -   | -  |
| 23                                     | Clerical                                       | 212, 232, 249                             | 17                                    | 1   | 10  | 6   | -  |
| 26                                     | Pilots   | 520                                       | 7                                     | -   | 7   | -   | -  |
| 24                                     | Aircraft Mechanics                             | 821                                       | 3                                     | -   | 3   | -   | -  |
| 24                                     | Machinists                                     | 802                                       | 4                                     | -   | 4   | -   | -  |
| 27                                     | Purchasing                                     | 008                                       | 2                                     | 1   | 1   | -   | -  |
| 34                                     | Warehousing                                    | 882                                       | 2                                     | -   | 1   | 1   | -  |
| 12                                     | Foremen  | 851, 900                                  | 9                                     | 1   | 7   | 1   | -  |
| 26                                     | Equipment Operators                            | 876                                       | 7                                     | 1   | 5   | 1   | -  |
| 18                                     | Equipment Mechanics                            | 822                                       | 13                                    | 1   | 11  | 1   | -  |
| 35                                     | Welders  | 817                                       | 11                                    | 6   | 5   | -   | -  |
| 8                                      | Truck Drivers                                  | 556                                       | 7                                     | -   | 1   | 6   | -  |
| 15                                     | Labour (Operating and<br>Maintenance           | 920, 926, 928                             | 25                                    | -   | 3   | 15  | 7  |
| 24                                     | Plumbers                                       | 810                                       | 4                                     | -   | 4   | -   | -  |
| 3                                      | Carpenters                                     | 751                                       | 7                                     | -   | 6   | 1   | -  |
| 24                                     | Station Operators                              | 833, 834                                  | 13                                    | 1   | 6   | 3   | 3  |
| 24                                     | Superintendents                                | 104, 199, 510                             | 5                                     | 2   | 3   | -   | -  |
|  | TOTAL  |   | 197                                   | 36  | 116 | 35  | 10 |
|  | Maximum Estimate                               |   | 226                                   | 41  | 134 | 40  | 11 |
|  | Minimum Estimate                               |   | 168                                   | 31  | 99  | 30  | 8  |

1/ See Chapter 2, Table 4.

2/ Based on Intermediate Estimate.

3/ See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern

POTENTIAL PIPELINE CONSTRUCTION JOBS AVAILABLE TO TERRITORIAL  
RESIDENTS DURING PERIOD OF MAJOR PIPE CONSTRUCTION

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |     |       |     |
|--|--|---|---------------------------------------|---|-----|-------|-----|
|  |  |   |                                       | I   | II  | III   | IV  |
| 12                                     | Foremen  | 510, 611, 851, 900                        | 18                                    | -   | 6   | 10    | 2   |
| 26                                     | Principal Operators                            | 874, 876, 877                             | 108                                   | -   | 26  | 82    | -   |
| 18                                     | Mechanics                                      | 821, 822                                  | 7                                     | -   | 7   | -     | -   |
| 19                                     | Mechanics Helper                               | 823, 827, 924                             | 103                                   | -   | 4   | 75    | 24  |
| 21                                     | Oilers   | 878                                       | 102                                   | -   | 5   | 76    | 21  |
| 16                                     | Labour (Pipelaying<br>and Compressor)          | 615, 859, 920, 926,<br>928                | 1,033                                 | -   | 11  | 454   | 568 |
| 8                                      | Drivers (Truck & Bus)                          | 551, 556                                  | 334                                   | -   | 28  | 306   | -   |
| 35                                     | Welders  | 817                                       | 11                                    | -   | 11  | -     | -   |
| 36                                     | Welder's Helpers                               | 920, 928                                  | 502                                   | -   | 21  | 343   | 138 |
| 11                                     | Engineers                                      | 109, 199                                  | 1                                     | -   | 1   | -     | 2   |
| 33                                     | Technicians                                    | 182, 198, 852                             | 8                                     | -   | 3   | 5     | 83  |
| 31                                     | Surveyors                                      | 183, 198                                  | 2                                     | -   | 2   | -     | -   |
| 32                                     | Surveyors Assistant                            | 182, 198, 852                             | 48                                    | -   | 1   | 37    | 10  |
| 29                                     | Superintendents                                | 010, 109, 851                             | 1                                     | -   | 1   | -     | -   |
| 30                                     | Superintendents Assist.                        | 851                                       | 1                                     | -   | 1   | -     | -   |
| 28                                     | Safety Staff                                   | 104, 143, 149                             | 1                                     | -   | 1   | -     | -   |
| 22                                     | Office Managers                                | 006, 188                                  | 1                                     | -   | 1   | -     | -   |
| 23                                     | Office Managers Assist.                        | 201, 203, 232, 405                        | 3                                     | -   | 1   | 2     | -   |
| 2                                      | Administ. Trainee                              | 014, 212, 214                             | 9                                     | -   | 2   | 7     | -   |
| 27                                     | Purchasing Agent                               | 008                                       | -                                     | -   | -   | -     | -   |
| 34                                     | Warehousing                                    | 882                                       | 1                                     | -   | 1   | -     | -   |
|  | TOTAL  |   | 2,294                                 | 0   | 134 | 1,397 | 763 |
|  | Maximum Estimate                               |   | 2,638                                 | 0   | 154 | 1,607 | 877 |
|  | Minimum Estimate                               |   | 1,949                                 | 0   | 114 | 1,187 | 648 |

1/ See Chapter 2, Table 4.

2/ Based on Intermediate Estimate.

3/ See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories. Background paper, M.P.S. Associates and Unies Limited, May 1972.

# Appendix 13

## POTENTIAL COMPRESSOR STATION AND FACILITY CONSTRUCTION JOBS AVAILABLE TO TERRITORIAL RESIDENTS DURING PERIOD OF MAJOR PIPE CONSTRUCTION

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |    |     |    |
|--|--|---|---------------------------------------|---|----|-----|----|
|  |  |   |                                       | I   | II | III | IV |
| 12                                     | Foremen  | 851, 900                                  | 1                                     | -   | 1  | -   | -  |
| 26                                     | Principal Operators                            | 874, 876, 877                             | 7                                     | -   | 3  | 4   | -  |
| 11                                     | Engineers                                      | 102, 109                                  | -                                     | -   | -  | -   | -  |
| 33                                     | Technicians                                    | 182, 198, 852                             | 3                                     | -   | 3  | -   | -  |
| 3                                      | Carpenters                                     | 751, 930                                  | 14                                    | -   | 4  | 10  | -  |
| 20                                     | Millwrights                                    | 805, 806, 808, 810, 811,<br>813           | 16                                    | -   | 9  | 7   | -  |
| 9                                      | Electricians                                   | 831, 839                                  | 3                                     | -   | 3  | -   | 2  |
| 5                                      | Clerical                                       | 249                                       | 4                                     | -   | 1  | 3   | -  |
| 13                                     | Inspectors                                     | 852                                       | 4                                     | -   | 2  | 2   | -  |
| 4                                      | Carpenter Apprentice                           | 760, 921                                  | 19                                    | -   | 3  | 16  | 84 |
| 25                                     | Plumber Apprentice                             | 820, 923                                  | 19                                    | -   | 3  | 16  | -  |
| 10                                     | Electrician Apprentice                         | 922                                       | 19                                    | -   | 3  | 16  | -  |
| 22                                     | Office Manager                                 | 006, 010, 188                             | 1                                     | -   | 1  | -   | -  |
| 16                                     | Labour (Pipelaying<br>and Compressor)          | 855, 859, 928                             | 118                                   | -   | 5  | 75  | 38 |
| 27                                     | Purchasing Agent                               | 008                                       | 1                                     | -   | 1  | -   | -  |
| 34                                     | Warehousing                                    | 882                                       | 3                                     | -   | 1  | 2   | -  |
|  | TOTAL  |   | 232                                   | 0   | 43 | 151 | 38 |
|  | Maximum Estimate                               |   | 267                                   | 0   | 49 | 173 | 45 |
|  | Minimum Estimate                               |   | 198                                   | 0   | 37 | 128 | 33 |

1/ See Chapter 2, Table 4.

2/ Based on Intermediate Estimate.

3/ See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.



POTENTIAL COMPRESSOR STATION AND FACILITY CONSTRUCTION JOBS IN POST PIPE  
COMPRESSOR AND FACILITY CONSTRUCTION PERIOD AVAILABLE TO TERRITORIAL RESIDENTS

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |    |     |    |
|--|--|---|---------------------------------------|---|----|-----|----|
|  |  |   |                                       | I   | II | III | IV |
| 12                                     | Foremen  | 851, 900                                  | -                                     | -   | -  | -   | -  |
| 26                                     | Principal Operators                            | 874, 876, 877                             | 5                                     | 2   | 3  | -   | -  |
| 11                                     | Engineers                                      | 102, 109                                  | -                                     | -   | -  | -   | -  |
| 33                                     | Technicians                                    | 182, 198, 852                             | 1                                     | 1   | -  | -   | -  |
| 3                                      | Carpenters                                     | 751, 930                                  | 8                                     | 2   | 6  | -   | -  |
| 20                                     | Millwrights                                    | 805, 806, 808, 810,<br>811, 813           | 9                                     | 5   | 4  | -   | -  |
| 9                                      | Electricians                                   | 831, 839                                  | 2                                     | 2   | -  | -   | -  |
| 5                                      | Clerical                                       | 249                                       | 3                                     | 1   | 2  | -   | -  |
| 13                                     | Inspectors                                     | 852                                       | 2                                     | 1   | 1  | -   | -  |
| 4                                      | Carpenter Apprentice                           | 760, 921                                  | 12                                    | 2   | 10 | -   | -  |
| 25                                     | Plumber Apprentice                             | 820, 923                                  | 12                                    | 2   | 10 | -   | -  |
| 10                                     | Electrician Apprentice                         | 922                                       | 12                                    | 2   | 10 | -   | -  |
| 22                                     | Office Manager                                 | 006, 010, 188                             | 1                                     | 1   | -  | -   | -  |
| 16                                     | Labour (Pipelaying<br>and Compressor)          | 855, 859, 928                             | 69                                    | 3   | 44 | -   | 22 |
| 27                                     | Purchasing Agent                               | 008                                       | -                                     | -   | -  | -   | -  |
| 34                                     | Warehousing                                    | 882                                       | 2                                     | 1   | 1  | -   | -  |
|  | TOTAL  |   | 138                                   | 0   | 25 | 91  | 22 |
|  | Maximum Estimate                               |   | 159                                   | 0   | 29 | 105 | 25 |
|  | Minimum Estimate                               |   | 118                                   | 0   | 22 | 77  | 19 |

<sup>1/</sup> See Chapter 2, Table 4.

<sup>2/</sup> Based on Intermediate Estimate.

<sup>3/</sup> See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

# Appendix 15

## POTENTIAL OFF-SITE TRANSPORTATION AND HANDLING JOBS DURING PERIOD OF MAJOR PIPE CONSTRUCTION AVAILABLE TO TERRITORIAL RESIDENTS

(Occupational Grouping and Labour Skill Classification)

| Pipeline Impact Study Code No. | Summarized Occupational Group <sup>1/</sup> | DIAND Manpower Survey Occupation Codes | Total Jobs <sup>2/</sup> in Period | Jobs in Each Skill <sup>3/</sup> Class in Period |    |     |       |
|--------------------------------|---|--|------------------------------------|--|----|-----|-------|
|                                |   |  |                                    | I  | II | III | IV    |
| 12                             | Foremen                                     | 510, 900                               | 10                                 | -  | 1  | 9   | -     |
| 26                             | Principal Operators <sup>4/</sup>           | 874, 876, 877, 520, 541                | 17                                 | -  | 4  | 13  | -     |
| 18                             | Mechanics                                   | 822                                    | 1                                  | -  | 1  | -   | -     |
| 19                             | Mechanics Helper                            | 823, 545, 547                          | 8                                  | -  | -  | 5   | 3     |
| 17                             | Labour/Warehousing <sup>5/</sup>            | 881, 882, 920                          | 114                                | -  | -  | 46  | 68    |
| 8                              | Truck Drivers                               | 556                                    | 22                                 | -  | 8  | 14  | -     |
| 2                              | Administrative Trainee                      | 014, 212, 214                          | 3                                  | -  | -  | 3   | -     |
| 1                              | Accountant                                  | 234                                    | 3                                  | -  | -  | 3   | -     |
| 23                             | Office Assistant                            | 232                                    | 2                                  | -  | -  | 2   | -     |
|                                | TOTAL                                       |  | 180                                | 0  | 14 | 95  | 71 86 |
|                                | Maximum Estimate                            |  | 207                                | 0  | 16 | 109 | 82    |
|                                | Minimum Estimate                            |  | 153                                | 0  | 12 | 81  | 60    |

- 1/ See Chapter 2, Table 4.  
2/ Based on Intermediate Estimate.  
3/ See Chapter 2, Table 3.  
4/ Includes flight crews and tug crews (Principal Operators 520, 541).  
5/ Includes flight crews and tug crews Labour/Warehousing 545, 547).

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

POTENTIAL OFF-SITE TRANSPORTATION JOBS IN POST PIPE COMPRESSOR  
AND FACILITY CONSTRUCTION PERIOD AVAILABLE TO TERRITORIAL RESIDENTS

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |    |     |    |
|--|--|---|---------------------------------------|---|----|-----|----|
|  |  |   |                                       | I   | II | III | IV |
| 12                                     | Foremen  | 510, 900                                  | 2                                     | -   | -  | 2   | -  |
| 26                                     | Principal Operators <sup>4/</sup>              | 520, 874, 876, 877                        | 3                                     | -   | 1  | 2   | -  |
| 18                                     | Mechanics                                      | 822                                       | -                                     | -   | -  | -   | -  |
| 19                                     | Mechanics Helper                               | 823                                       | -                                     | -   | -  | -   | -  |
| 17                                     | Labour/Warehousing                             | 881, 882, 920                             | 34                                    | -   | -  | 14  | 20 |
| 8                                      | Truck Drivers                                  | 556                                       | 2                                     | -   | -  | 2   | -  |
| 2                                      | Administrative Trainee                         | 014, 212, 214                             | 1                                     | -   | -  | 1   | -  |
| 1                                      | Accountant                                     | 234                                       | -                                     | -   | -  | -   | -  |
| 23                                     | Office Assistant                               | 232                                       | -                                     | -   | -  | -   | -  |
|  | TOTAL  |   | 42                                    | 0   | 1  | 21  | 20 |
|  | Maximum Estimate                               |   | 48                                    | 0   | 1  | 24  | 23 |
|  | Minimum Estimate                               |   | 36                                    | 0   | 1  | 18  | 17 |

<sup>1/</sup> See Chapter 2, Table 4.

<sup>2/</sup> Based on Intermediate Estimate.

<sup>3/</sup> See Chapter 2, Table 3.

<sup>4/</sup> Includes flight crews (520).

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

# Appendix 17

## POTENTIAL CATERING AND CAMP OPERATING JOBS DURING PERIOD OF MAJOR PIPE CONSTRUCTION AVAILABLE TO TERRITORIAL RESIDENTS

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes      | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |    |     |     |
|--|--|--|---------------------------------------|---|----|-----|-----|
|  |  |  |                                       | I   | II | III | IV  |
| 22                                     | Manager  | 006, 010                                       | 4                                     | -   | 3  | 1   | -   |
| 2                                      | Assistant Manager                              | 009, 014                                       | 14                                    | -   | 3  | 11  | -   |
| 6                                      | Cooks  | 413, 702                                       | 18                                    | -   | 6  | 12  | -   |
| 7                                      | Cooks Helper                                   | 415, 459, 925                                  | 187                                   | -   | 3  | 118 | 66  |
| 14                                     | Labour   | 405, 454, 459, 760, 920,<br>921, 927, 930, 931 | 219                                   | -   | 4  | 89  | 126 |
| 3                                      | Carpenters                                     | 751  | 32                                    | -   | 4  | 28  | -   |
| 24                                     | Other Trades                                   | 810, 830, 831, 838, 859                        | 13                                    | -   | 2  | 8   | 3   |
| 23                                     | Clerical                                       | 201, 203, 212, 214, 249                        | 21                                    | -   | 3  | 16  | 2   |
|  | TOTAL  |  | 508                                   | 0   | 28 | 283 | 197 |
|  | Maximum Estimate                               |  | 584                                   | 0   | 32 | 325 | 227 |
|  | Minimum Estimate                               |  | 432                                   | 0   | 24 | 240 | 168 |

1/ See Chapter 2, Table 4.

2/ Based on Intermediate Estimate.

3/ See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

POTENTIAL CATERING AND CAMP OPERATING JOBS IN POST PIPE COMPRESSOR  
AND FACILITY CONSTRUCTION PERIOD AVAILABLE TO TERRITORIAL RESIDENTS

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes      | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |    |     |    |
|--|--|--|---------------------------------------|---|----|-----|----|
|  |  |  |                                       | I   | II | III | IV |
| 22                                     | Manager  | 006, 010                                       | -                                     | -   | -  | -   | -  |
| 2                                      | Assistant Manager                              | 009, 014                                       | 1                                     | -   | -  | 1   | -  |
| 6                                      | Cooks  | 413, 702                                       | 2                                     | -   | 1  | 1   | -  |
| 7                                      | Cooks Helper                                   | 415, 459, 925                                  | 15                                    | -   | -  | 9   | 6  |
| 14                                     | Labour   | 405, 454, 459, 760, 920,<br>921, 927, 930, 931 | 18                                    | -   | -  | 8   | 10 |
| 3                                      | Carpenters                                     | 751  | 3                                     | -   | 1  | 2   | -  |
| 24                                     | Other Trades                                   | 810, 830, 831, 838, 859                        | 1                                     | -   | -  | 1   | -  |
| 23                                     | Clerical                                       | 201, 203, 212, 214, 249                        | 1                                     | -   | -  | 1   | -  |
|  | TOTAL  |  | 41                                    | -   | 2  | 23  | 16 |
|  | Maximum Estimate                               |  | 47                                    | 0   | 2  | 27  | 18 |
|  | Minimum Estimate                               |  | 35                                    | 0   | 2  | 19  | 14 |

<sup>1/</sup> See Chapter 2, Table 4.

<sup>2/</sup> Based on Intermediate Estimate.

<sup>3/</sup> See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.



POTENTIAL OPERATION AND MAINTENANCE STAFF JOBS IN POST PIPE COMPRESSOR AND  
FACILITY CONSTRUCTION PERIOD AVAILABLE TO TERRITORIAL RESIDENTS

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |    |     |    |
|--|--|---|---------------------------------------|---|----|-----|----|
|  |  |   |                                       | I   | II | III | IV |
| 11                                     | Managerial                                     | 010, 102, 104, 109                        | -                                     | -   | -  | -   | -  |
| 11                                     | Engineering                                    | 102, 104, 109                             | -                                     | -   | -  | -   | -  |
| 33                                     | Technicians                                    | 198                                       | 2                                     | -   | 2  | -   | -  |
| 22                                     | Administration                                 | 006, 009                                  | -                                     | -   | -  | -   | -  |
| 23                                     | Clerical                                       | 212, 232, 249                             | 5                                     | -   | 1  | 4   | -  |
| 26                                     | Pilots   | 520                                       | 1                                     | -   | 1  | -   | -  |
| 24                                     | Aircraft Mechanics                             | 821                                       | -                                     | -   | -  | -   | -  |
| 24                                     | Machinists                                     | 802                                       | -                                     | -   | -  | -   | -  |
| 27                                     | Purchasing                                     | 008                                       | -                                     | -   | -  | -   | -  |
| 34                                     | Warehousing                                    | 882                                       | 1                                     | -   | -  | 1   | -  |
| 12                                     | Foremen  | 851, 900                                  | -                                     | -   | -  | -   | -  |
| 26                                     | Equipment Operators                            | 876                                       | 1                                     | -   | -  | 1   | -  |
| 18                                     | Equipment Mechanics                            | 822                                       | 1                                     | -   | 1  | -   | -  |
| 35                                     | Welders  | 817                                       | -                                     | -   | -  | -   | -  |
| 8                                      | Truck Drivers                                  | 556                                       | 4                                     | -   | -  | 4   | -  |
| 15                                     | Labour (Operating and<br>Maintenance)          | 920, 926, 928                             | 12                                    | -   | -  | 8   | 4  |
| 24                                     | Plumbers                                       | 810                                       | -                                     | -   | -  | -   | -  |
| 3                                      | Carpenters                                     | 751                                       | 1                                     | -   | 1  | -   | -  |
| 24                                     | Station Operators                              | 833, 834                                  | 4                                     | -   | -  | 2   | 2  |
| 24                                     | Superintendents                                | 104, 199, 510                             | -                                     | -   | -  | -   | -  |
|  | TOTAL  |   | 32                                    | 0   | 6  | 20  | 6  |
|  | Maximum Estimate                               |   | 37                                    | 0   | 7  | 23  | 7  |
|  | Minimum Estimate                               |   | 27                                    | 0   | 5  | 17  | 5  |

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1/ See Chapter 2, Table 4.

2/ Based on Intermediate Estimate.

3/ See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories Background Paper. M.P.S. Associates and Unies Limited, May 1972.

OPERATION AND MAINTENANCE STAFF; POTENTIAL PERMANENT JOBS IN POST  
CONSTRUCTION CAPACITY OPERATION PERIOD AVAILABLE TO TERRITORIAL RESIDENTS

(Occupational Grouping and  
Labour Skill Classification)

| Pipeline Im-<br>pact Study<br>Code No. | Summarized<br>Occupational Group <sup>1/</sup> | DIAND Manpower Survey<br>Occupation Codes | Total Jobs <sup>2/</sup><br>in Period | Jobs in Each Skill <sup>3/</sup><br>Class in Period |    |     |    |
|--|--|---|---------------------------------------|---|----|-----|----|
|  |  |   |                                       | I   | II | III | IV |
| 11                                     | Managerial                                     | 010, 102, 104, 109                        | -                                     | -   | -  | -   | -  |
| 11                                     | Engineering                                    | 102, 104, 109                             | -                                     | -   | -  | -   | -  |
| 33                                     | Technicians                                    | 198                                       | 3                                     | -   | 3  | -   | -  |
| 22                                     | Administration                                 | 006, 009                                  | -                                     | -   | -  | -   | -  |
| 23                                     | Clerical                                       | 212, 232, 249                             | 7                                     | -   | 1  | 6   | -  |
| 26                                     | Pilots   | 520                                       | 1                                     | -   | 1  | -   | -  |
| 24                                     | Aircraft Mechanics                             | 821                                       | -                                     | -   | -  | -   | -  |
| 24                                     | Machinists                                     | 802                                       | -                                     | -   | -  | -   | -  |
| 27                                     | Purchasing                                     | 008                                       | -                                     | -   | -  | -   | -  |
| 34                                     | Warehousing                                    | 882                                       | 1                                     | -   | -  | -   | -  |
| 12                                     | Foremen  | 851, 900                                  | 2                                     | -   | 1  | 1   | -  |
| 26                                     | Equipment Operators                            | 876                                       | 2                                     | -   | 1  | 1   | -  |
| 18                                     | Equipment Mechanics                            | 822                                       | 2                                     | -   | 1  | 1   | -  |
| 35                                     | Welders  | 817                                       | 1                                     | -   | 1  | -   | -  |
| 8                                      | Truck Drivers                                  | 556                                       | 6                                     | -   | -  | 6   | -  |
| 15                                     | Labour (Operating and<br>Maintenance)          | 920, 926, 928                             | 22                                    | -   | -  | 15  | 7  |
| 24                                     | Plumbers                                       | 810                                       | -                                     | -   | -  | -   | -  |
| 3                                      | Carpenters                                     | 751                                       | 2                                     | -   | 1  | 1   | -  |
| 24                                     | Station Operators                              | 833, 834                                  | 7                                     | -   | 1  | 3   | 3  |
| 24                                     | Superintendents                                | 104, 199, 510                             | -                                     | -   | -  | -   | -  |
|  | TOTAL  |   | 56                                    | 0   | 11 | 35  | 10 |
|  | Maximum Estimate                               |   | 64                                    | 0   | 13 | 40  | 11 |
|  | Minimum Estimate                               |   | 48                                    | 0   | 10 | 30  | 8  |

1/ See Chapter 2, Table 4.

2/ Based on Intermediate Estimate.

3/ See Chapter 2, Table 3.

Source: Evaluation of Occupational Classifications and Direct Labour Requirements in Northern Territories, Background paper, M.P.S. Associates and Unies Limited, May 1972.

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

LOWER MACKENZIE REGION

|  | Inuvik |            | Aklavik |            | Ft. McPherson |            | Arctic<br>Red River |            | Tuktoyaktuk |            | Total Region |            |
|--|--------|------------|---------|------------|---------------|------------|---------------------|------------|-------------|------------|--------------|------------|
|  | Native | Non-Native | Native  | Non-Native | Native        | Non-Native | Native              | Non-Native | Native      | Non-Native | Native       | Non-Native |

## GROUP I

|               |   |   |   |   |   |   |   |   |   |   |    |   |
|---------------|---|---|---|---|---|---|---|---|---|---|----|---|
| 006           |   | 1 |   |   |   |   |   |   |   |   | 1  |   |
| 101           |   |   |   |   |   |   |   |   |   |   |    |   |
| 102           |   |   |   |   |   |   |   |   |   |   |    |   |
| 104           |   |   |   |   |   |   |   |   |   |   |    |   |
| 105           |   |   |   |   |   |   |   |   |   |   |    |   |
| 153           |   |   |   |   |   |   |   |   |   |   |    |   |
| 563**         | 1 |   |   |   |   |   |   |   |   |   | 1  |   |
| 817**         | 2 |   | 1 |   |   |   | 3 |   |   |   | 1  | 2 |
| 851**         | 2 |   | 4 |   |   |   |   | 7 |   |   | 17 | 2 |
| 876**         |   |   |   |   |   |   |   |   |   |   |    |   |
| TOTAL Group I | 2 | 6 | 5 | 0 | 1 | 0 | 3 | 0 | 7 | 0 | 18 | 6 |

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## GROUP II

|     |  |   |   |  |  |  |  |  |  |  |   |  |
|-----|--|---|---|--|--|--|--|--|--|--|---|--|
| 008 |  | 3 |   |  |  |  |  |  |  |  | 3 |  |
| 011 |  |   |   |  |  |  |  |  |  |  |   |  |
| 012 |  |   |   |  |  |  |  |  |  |  |   |  |
| 013 |  |   | 1 |  |  |  |  |  |  |  | 1 |  |
| 109 |  |   |   |  |  |  |  |  |  |  |   |  |
| 112 |  |   |   |  |  |  |  |  |  |  |   |  |
| 121 |  |   |   |  |  |  |  |  |  |  |   |  |

1/ Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, Chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ().

Source: DIAND Mackenzie Manpower Survey, October 1, 1969-September 30, 1970, Table 57.

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

LOWER MACKENZIE REGION

| GROUP II<br>(cont'd) | Inuvik |            | Aklavik |            | Ft. McPherson |            | Arctic<br>Red River |            | Tuktoyaktuk |            | Total Region |            |
|----------------------|--------|------------|---------|------------|---------------|------------|---------------------|------------|-------------|------------|--------------|------------|
|                      | Native | Non-Native | Native  | Non-Native | Native        | Non-Native | Native              | Non-Native | Native      | Non-Native | Native       | Non-Native |
| 149                  | 1      |            | 1       |            |               |            |                     |            |             |            | 1            | 1          |
| 182**                |        |            |         |            |               |            |                     |            |             |            |              |            |
| 183                  |        |            |         |            |               |            |                     |            | 1           |            | 1            |            |
| 188                  | 2      |            |         |            |               |            |                     |            |             |            |              | 2          |
| 196                  |        |            |         |            |               |            |                     |            |             |            |              |            |
| 198                  | 2      |            |         |            |               |            |                     |            |             |            | 2            |            |
| 199                  | 3      |            |         |            |               |            |                     |            |             |            |              | 3          |
| 212**                | 11     | 17         | 3       |            | 2             | 1          |                     |            | 4           |            | 20           | 18         |
| 214**                |        |            |         |            |               |            |                     |            |             |            |              |            |
| 221**                |        |            |         |            |               |            |                     |            |             |            |              |            |
| 232**                |        |            |         |            |               |            |                     |            |             |            |              |            |
| 413                  | 1      | 5          | 1       |            | 1             |            |                     |            | 3           |            | 1            | 5          |
| 459**                | 11     |            | 2       |            |               |            |                     |            |             |            | 7            | 11         |
| 510                  | 2      | 5          |         |            |               |            |                     |            |             |            | 2            | 5          |
| 520                  | 3      | 5          |         |            |               |            |                     |            |             |            | 3            | 5          |
| 548                  |        |            |         |            |               |            |                     |            |             |            |              |            |
| 556**                | 9      | 2          | 2       |            |               |            |                     |            | 2           |            | 13           | 2          |
| 557**                | 1      |            |         |            |               |            |                     |            |             |            | 1            |            |
| 563 (Gp.1)           |        |            |         |            |               |            |                     |            |             |            |              |            |
| 702                  |        |            |         |            |               |            |                     |            |             |            |              |            |
| 751                  | 3      |            |         |            |               |            |                     |            |             |            | 1            | 3          |
| 805                  |        |            |         |            |               |            |                     |            |             |            |              |            |
| 806                  |        |            |         |            |               |            |                     |            |             |            |              |            |
| 808                  |        |            |         |            |               |            |                     |            |             |            |              |            |

1/ Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, Chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ().

Source: DIAND Mackenzie Manpower Survey, October 1, 1969-September 30, 1970, Table 57.

Appendix 21 (cont'd)

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

| GROUP II (cont'd) | LOWER MACKENZIE REGION |            |         |            |               |            | Arctic    |            | Tuktoyaktuk |            | Total Region |            |
|-------------------|------------------------|------------|---------|------------|---------------|------------|-----------|------------|-------------|------------|--------------|------------|
|                   | Inuvik                 |            | Aklavik |            | Ft. McPherson |            | Red River |            |             |            |              |            |
|                   | Native                 | Non-Native | Native  | Non-Native | Native        | Non-Native | Native    | Non-Native | Native      | Non-Native | Native       | Non-Native |
| 810               |                        |            |         |            | 1             |            |           |            |             |            | 1            |            |
| 811               |                        |            |         |            |               |            |           |            |             |            |              |            |
| 813               |                        |            |         |            |               |            |           |            |             |            |              |            |
| 817(Gp.1)         | (1)                    |            |         |            |               |            |           |            |             |            | (1)          |            |
| 821               | 4                      |            |         |            |               |            |           |            |             |            | 4            |            |
| 822               | 3                      |            |         | 1          |               |            |           |            | 2           |            | 2            |            |
| 824**             |                        |            |         |            |               |            |           |            |             |            |              |            |
| 831               | 4                      |            |         |            |               |            |           |            |             |            | 4            | 2          |
| 833               | 3                      |            |         |            | 5             |            | 1         |            | 1           |            | 3            | 1          |
| 835               |                        |            |         |            |               |            |           |            |             |            | 11           | 2          |
| 838               |                        | 2          |         |            |               |            |           |            |             |            |              |            |
| 839               | 3                      |            |         |            |               |            |           |            |             |            |              |            |
| 851(Gp.1)         | (2)                    |            | (1)     |            |               |            |           |            |             |            | (1)          | (2)        |
| 852**             |                        |            |         |            |               |            |           |            |             |            |              |            |
| 855**             |                        |            |         |            |               |            |           |            |             |            |              |            |
| 872               | 1                      | 4          |         |            |               |            |           |            |             |            | 2            | 4          |
| 874               |                        |            |         |            |               |            |           |            |             |            |              |            |
| 875               |                        |            |         |            |               |            |           |            |             |            |              |            |
| 876(Gp.1)         | (2)                    | (2)        | (4)     |            | (1)           |            | (3)       |            | (7)         |            | (17)         | (2)        |
| 877**             |                        |            |         |            |               |            |           |            |             |            |              |            |
| 900**             |                        |            |         |            | 1             |            |           |            |             |            | 3            |            |
| 928**             |                        |            |         |            |               |            |           |            | 2           |            |              |            |

1/ Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, Chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ().

Source: DIAND Mackenzie Manpower Survey, October 1, 1969-September 30, 1970, Table 57.



INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
 BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

LOWER MACKENZIE REGION

|                   | Inuvik |            | Aklavik |            | Ft. McPherson |            | Arctic<br>Red River |            | Tuktoyaktuk |            | Total Region |            |
|-------------------|--------|------------|---------|------------|---------------|------------|---------------------|------------|-------------|------------|--------------|------------|
|                   | Native | Non-Native | Native  | Non-Native | Native        | Non-Native | Native              | Non-Native | Native      | Non-Native | Native       | Non-Native |
| GROUP II (cont'd) |        |            |         |            |               |            |                     |            |             |            |              |            |
| TOTAL Group II    | 33     | 82         | 11      | 1          | 10            | 1          | 3                   | 0          | 15          | 0          | 72           | 84         |
| GROUP III         |        |            |         |            |               |            |                     |            |             |            |              |            |
| 009               | 1      | 13         |         | 2          |               | 1          | 2                   |            |             |            | 2            | 17         |
| 014               |        |            |         |            |               |            |                     |            |             |            |              |            |
| 182**(Gp.11)      |        | 1          |         |            |               |            |                     |            |             |            |              | 1          |
| 201               |        |            |         |            |               |            |                     |            |             |            |              |            |
| 203               |        |            |         |            |               |            |                     |            |             |            |              |            |
| 212(Gp.11)        | (11)   | (17)       | (3)     |            | (2)           | (1)        |                     |            | (4)         |            | (20)         | (18)       |
| 214(Gp.11)        |        |            |         |            |               |            |                     |            |             |            |              |            |
| 221(Gp.11)        |        |            |         |            |               |            |                     |            |             |            |              |            |
| 232(Gp.11)        |        | (5)        | (1)     |            |               |            |                     |            |             |            | (1)          | (5)        |
| 234               | 1      | 3          | 1       | 2          | 1             |            |                     |            |             |            | 3            | 5          |
| 249               | 6      | 23         | 1       | 3          |               |            |                     |            | 3           |            | 10           | 26         |
| 405               |        | 1          |         |            |               |            |                     |            | 1           |            | 2            | 1          |
| 415               | 5      | 5          | 8       |            |               |            |                     |            | 1           |            | 14           | 5          |
| 459(Gp.11)        |        |            |         |            |               |            |                     |            |             |            |              |            |
| 551               |        |            |         |            |               |            |                     |            |             |            |              |            |
| 556(Gp.11)        | (9)    | (2)        | (2)     |            |               |            |                     |            | (2)         |            | (13)         | (2)        |
| 557(Gp.11)        | (1)    |            |         |            |               |            |                     |            |             |            | (1)          |            |
| 569**             |        | 1          |         |            |               |            |                     |            |             |            |              | 1          |

<sup>1/</sup> Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, Chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ( ).

# Appendix 21 (cont'd)

## INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup> BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

### LOWER MACKENZIE REGION

|  | Inuvik |            | Aklavik |            | Ft. McPherson |            | Arctic Red River |            | Tuktoyaktuk |            | Total Region |            |
|--|--------|------------|---------|------------|---------------|------------|------------------|------------|-------------|------------|--------------|------------|
|  | Native | Non-Native | Native  | Non-Native | Native        | Non-Native | Native           | Non-Native | Native      | Non-Native | Native       | Non-Native |

### GROUP III (cont'd)

|              |     |     |    |     |    |     |   |     |    |     |     |     |
|--------------|-----|-----|----|-----|----|-----|---|-----|----|-----|-----|-----|
| 611          |     |     |    |     |    |     |   |     |    |     |     |     |
| 615**        | 1   |     | 1  |     |    |     |   |     |    |     |     |     |
| 760          |     |     |    |     |    |     |   |     |    |     |     |     |
| 820          |     |     |    |     |    |     |   |     |    |     |     |     |
| 832          |     |     |    |     |    |     |   |     |    |     |     |     |
| 824(Gp.11)   |     | 1   |    |     |    |     |   |     |    |     |     |     |
| 827          |     |     |    |     |    |     |   |     |    |     |     |     |
| 828          |     |     |    |     |    |     |   |     |    |     |     |     |
| 851(Gp.11,I) |     | (2) |    | (1) |    |     |   |     |    |     |     | 1   |
| 852(Gp.11)   |     |     |    |     |    |     |   |     |    |     |     |     |
| 855(Gp.11)   |     |     |    |     |    |     |   |     |    |     |     |     |
| 859**        |     | 1   |    |     |    |     |   |     |    |     |     |     |
| 876(Gp.11,I) | (2) | (2) |    | (4) |    | (1) |   | (3) |    | (7) |     | (2) |
| 877(Gp.11)   |     |     |    |     |    |     |   |     |    |     |     |     |
| 878**        |     |     |    |     |    |     |   |     |    | 4   |     |     |
| 881**        |     |     |    |     |    |     |   |     |    |     |     |     |
| 882**        |     |     |    |     |    |     |   |     |    |     |     |     |
| 900(Gp.11)   |     |     |    |     |    |     |   |     |    |     |     |     |
| 920**        | 36  | 11  | 41 | 2   | 52 |     | 2 |     | 26 |     | 157 | 13  |
| 921          | 5   | 7   | 3  |     | 1  |     | 1 |     | 26 |     | 36  | 7   |
| 922          |     |     |    |     |    |     |   |     |    |     |     |     |
| 923          |     | 2   |    |     |    |     |   |     | 2  |     | 2   | 2   |

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\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ( ).

Source: DIAND Mackenzie Manpower Survey, October 1, 1969-September 30, 1970, Table 57.

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

| LOWER MACKENZIE REGION    |               |                   |               |                      |               |                         |               |                    |                     |
|---------------------------|---------------|-------------------|---------------|----------------------|---------------|-------------------------|---------------|--------------------|---------------------|
|                           | <u>Inuvik</u> | <u>Aklavik</u>    |               | <u>Ft. McPherson</u> |               | <u>Arctic Red River</u> |               | <u>Tuktoyaktuk</u> |                     |
|                           | <u>Native</u> | <u>Non-Native</u> | <u>Native</u> | <u>Non-Native</u>    | <u>Native</u> | <u>Non-Native</u>       | <u>Native</u> | <u>Non-Native</u>  | <u>Total Region</u> |
| <u>GROUP III (cont'd)</u> |               |                   |               |                      |               |                         |               |                    |                     |
| 924                       | 1             | 2                 |               |                      | 1             |                         |               |                    | 2                   |
| 925**                     | 13            | 5                 | 3             |                      | 3             |                         |               | 2                  | 24                  |
| 926**                     |               | 2                 |               |                      | 10            |                         |               |                    | 10                  |
| 928(Gp.11)                |               |                   |               |                      | (1)           |                         |               | (2)                | (3)                 |
| 929**                     |               |                   |               |                      |               |                         |               |                    |                     |
| 930                       | 1             |                   |               |                      |               |                         |               |                    | 1                   |
| 931                       |               |                   |               |                      |               |                         |               |                    |                     |
| 932                       | 5             | 3                 |               |                      | 1             |                         |               | 1                  | 7                   |
| TOTAL Group III           | 75            | 81                | 58            | 9                    | 71            | 2                       | 12            | 0                  | 282                 |
|                           |               |                   |               |                      |               |                         |               |                    | 92                  |
| <u>GROUP IV</u>           |               |                   |               |                      |               |                         |               |                    |                     |
| 459(Gps.II,III)           |               |                   |               |                      |               |                         |               |                    |                     |
| 569(Gp.III)               |               | (1)               |               |                      |               |                         |               |                    | (1)                 |
| 615(Gp.III)               | (1)           |                   | (1)           |                      |               |                         | (6)           |                    | (8)                 |
| 851(Gps.I,III,II)         |               | (2)               | (1)           |                      |               |                         |               |                    | (1)                 |
| 859(Gp.III)               |               | (1)               |               |                      |               |                         |               |                    | (2)                 |
| 878(Gp.III)               |               |                   |               |                      |               |                         |               |                    | (1)                 |
| 879                       |               |                   |               |                      |               |                         |               |                    |                     |
| 881(Gp.III)               |               |                   |               |                      |               |                         |               |                    |                     |
| 882(Gp.III)               |               |                   |               |                      |               |                         |               | (4)                | (4)                 |

<sup>1/</sup> Skills are standard occupational classifications used by Statistics Canada and in the DIAND Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ().

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATES SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

1/ Skills are standard occupational classifications used by Statistics Canada in the DIAND Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ( ).

DIACKETS (%).

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

1/ Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ( ).

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\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ().

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.



## Appendix 21 (cont'd)

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

| UPPER MACKENZIE REGION |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|------------------------|-----------|------------|----------------|------------|-------------|------------|------------------|------------|---------------|------------|------------|------------|-----------|------------|--------------|------------|
| Ft. Simpson            | Ft. Liard |            | Ft. Providence |            | Ft. Wrigley |            | Jean Marie River |            | Nahanni Butte |            | Trout Lake |            | Hay River |            | Total Region |            |
|                        | Native    | Non-Native | Native         | Non-Native | Native      | Non-Native | Native           | Non-Native | Native        | Non-Native | Native     | Non-Native | Native    | Non-Native | Native       | Non-Native |
| 149                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            | 1            |            |
| 182**                  |           |            |                |            |             |            |                  |            |               |            |            |            |           | 1          | 1            | 1          |
| 183                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            | 2            | 2          |
| 188                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 196                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 198                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 199                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 212**                  |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 214**                  |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 221**                  |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 232**                  |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 413                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 459**                  |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 510                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 520                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 548                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 556**                  |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 557**                  |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 563 (Gp.1)             |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 702                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
| 751                    |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |

1/ Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ( ).

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INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
 BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

CENTRAL MACKENZIE REGION

|                   | <u>Norman Wells</u> |                   | <u>Colville Lake</u> |                   | <u>Ft. Franklin</u> |                   | <u>Ft. Good Hope</u> |                   | <u>Ft. Norman</u> |                   | <u>Total Region</u> |                   |
|-------------------|---------------------|-------------------|----------------------|-------------------|---------------------|-------------------|----------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
|                   | <u>Native</u>       | <u>Non-Native</u> | <u>Native</u>        | <u>Non-Native</u> | <u>Native</u>       | <u>Non-Native</u> | <u>Native</u>        | <u>Non-Native</u> | <u>Native</u>     | <u>Non-Native</u> | <u>Native</u>       | <u>Non-Native</u> |
| GROUP II (cont'd) |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 806               |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 808               |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 810               |                     | 2                 |                      |                   |                     |                   |                      |                   |                   |                   |                     | 2                 |
| 811               |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 813               |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 817 (Gp.1)        |                     | (2)               |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 821               |                     |                   |                      |                   |                     | 1                 |                      |                   |                   |                   | (2)                 |                   |
| 822               |                     | 3                 |                      |                   |                     |                   |                      |                   |                   |                   | 1                   |                   |
| 824**             |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   | 3                   |                   |
| 831               |                     | 1                 |                      |                   |                     |                   |                      |                   |                   |                   | 1                   |                   |
| 833               |                     | 1                 |                      |                   | 1                   |                   |                      |                   |                   |                   | 1                   |                   |
| 835               |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   | 2                   |                   |
| 838               |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 839               |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 851 (Gp.1)        |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 852**             |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 855**             |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 872               |                     | 1                 |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 874               |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 875               |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 876 (Gp.1)        |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 877**             |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
|                   |                     |                   |                      |                   |                     |                   | 1                    |                   |                   |                   |                     |                   |
|                   |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     | 2                 |

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<sup>1/</sup> Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ().

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.

$\frac{1}{2}$ 

## CENTRAL MACKENZIE REGION

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to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ().

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

CENTRAL MACKENZIE REGION

| GROUP III (cont'd) | <u>Norman Wells</u> |                   | <u>Colville Lake</u> |                   | <u>Ft. Franklin</u> |                   | <u>Ft. Good Hope</u> |                   | <u>Ft. Norman</u> |                   | <u>Total Region</u> |                   |
|--------------------|---------------------|-------------------|----------------------|-------------------|---------------------|-------------------|----------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
|                    | <u>Native</u>       | <u>Non-Native</u> | <u>Native</u>        | <u>Non-Native</u> | <u>Native</u>       | <u>Non-Native</u> | <u>Native</u>        | <u>Non-Native</u> | <u>Native</u>     | <u>Non-Native</u> | <u>Native</u>       | <u>Non-Native</u> |
| 556 (Gp. II)       |                     | (1)               |                      |                   |                     |                   | (2)                  |                   | (1)               |                   | (3)                 | (1)               |
| 557 (Gp. II)       |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 569**              |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 611                |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 615**              |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 760                |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 820                |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 823                |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 824 (Gp. II)       |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 827                |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 828                |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 851 (Gp. II, I)    |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 852 (Gp. II)       |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 855 (Gp. II)       |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 859**              |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 876 (Gp. II, I)    |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 877 (Gp. II)       |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 878**              |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 881**              |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 882**              |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 900 (Gp. II)       |                     | 3                 |                      |                   |                     |                   |                      |                   |                   |                   |                     | 3                 |
| 920**              | 1                   |                   | 11                   |                   | 23                  |                   | 24                   |                   | 9                 |                   | 67                  | 1                 |

<sup>1/</sup> Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ().

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.

Appendix 21 (cont'd)

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

CENTRAL MACKENZIE REGION

|  | Norman Wells              | Colville Lake             | Ft. Franklin              | Ft. Good Hope             | Ft. Norman                | Total Region              |
|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|  | <u>Native</u> <u>Non-</u> | <u>Native</u> <u>Non-</u> | <u>Native</u> <u>Non-</u> | <u>Native</u> <u>Non-</u> | <u>Native</u> <u>Non-</u> | <u>Native</u> <u>Non-</u> |
|  | <u>Native</u>             | <u>Native</u>             | <u>Native</u>             | <u>Native</u>             | <u>Native</u>             | <u>Native</u>             |

GROUP III (cont'd)

|                 |   |   |     |   |     |      |
|-----------------|---|---|-----|---|-----|------|
| 921             |   |   |     |   |     |      |
| 922             |   |   |     |   |     |      |
| 923             |   |   |     |   |     |      |
| 924             |   |   |     |   |     |      |
| 925**           | 1 |   |     |   |     | 1    |
| 926**           |   |   |     |   |     |      |
| 928(Gp.II)      |   |   | (3) |   | (8) | (11) |
| 929**           |   |   |     |   |     |      |
| 930             |   |   |     |   |     |      |
| 931             |   |   |     |   |     |      |
| 932             |   |   |     |   |     |      |
| TOTAL Group III | 0 | 5 | 11  | 0 | 26  | 3    |
|                 |   |   |     |   | 27  | 12   |
|                 |   |   |     |   | 3   | 4    |
|                 |   |   |     |   | 76  | 15   |

GROUP IV

|                   |     |     |     |
|-------------------|-----|-----|-----|
| 459(Gps.II,III)   | (1) | (1) | (2) |
| 569(Gp.III)       |     |     |     |
| 615(Gp.III)       |     |     |     |
| 851(Gps.I,II,III) |     |     |     |
| 859(Gp.III)       |     |     |     |
| 878(Gp.III)       |     |     |     |

1/ Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ( ).

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.



INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

CENTRAL MACKENZIE REGION

|                          | <u>Norman Wells</u> |                   | <u>Colville Lake</u> |                   | <u>Ft. Franklin</u> |                   | <u>Ft. Good Hope</u> |                   | <u>Ft. Norman</u> |                   | <u>Total Region</u> |                   |
|--------------------------|---------------------|-------------------|----------------------|-------------------|---------------------|-------------------|----------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
|                          | <u>Native</u>       | <u>Non-Native</u> | <u>Native</u>        | <u>Non-Native</u> | <u>Native</u>       | <u>Non-Native</u> | <u>Native</u>        | <u>Non-Native</u> | <u>Native</u>     | <u>Non-Native</u> | <u>Native</u>       | <u>Non-Native</u> |
| <u>GROUP IV (cont'd)</u> |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 879                      |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 881(Gp.III)              |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     | (3)               |
| 882(Gp.III)              |                     | (3)               |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 900(Gps.II,III)          |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 920(Gps.III)             |                     | (1)               | (11)                 |                   | (23)                |                   | (24)                 |                   | (9)               |                   | (67)                | (1)               |
| 925(Gp.III)              |                     | (1)               |                      |                   |                     |                   |                      |                   |                   |                   |                     | (1)               |
| 926(Gp.III)              |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| 928(Gps.II,III)          |                     |                   |                      |                   | (3)                 |                   |                      |                   | (8)               |                   | (11)                |                   |
| 929(Gp.III)              |                     |                   |                      |                   |                     |                   |                      |                   |                   |                   |                     |                   |
| TOTAL Group IV           | 0                   | (6)               | (11)                 | 0                 | (26)                | (1)               | (24)                 | 0                 | (18)              | 0                 | (79)                | (7)               |
| TOTAL Groups I-III       | 0                   | 25                | 11                   | 0                 | 37                  | 11                | 33                   | 4                 | 21                | 4                 | 102                 | 44                |

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<sup>1/</sup> Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ( ).

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.



## Appendix 21 (cont'd)

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

[illegible]

1/ Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ( ).

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.

## Appendix 21 (cont'd)

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENTS, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

## UPPER MACKENZIE REGION

[illegible]

GROUP II (cont'd)

1/ Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

Program. See table 6, chapter 2, page 211 for description of the program.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted as "new" occupations. For example, in the first time they occur in other groups they are placed in brackets ( ).

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.





## Appendix 21 (cont'd)

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
 BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

|                    | UPPER MACKENZIE REGION |            |           |            |                |            |             |            |                  |            |               |            | Total Region |            |            |            |
|--------------------|------------------------|------------|-----------|------------|----------------|------------|-------------|------------|------------------|------------|---------------|------------|--------------|------------|------------|------------|
|                    | Ft. Simpson            |            | Ft. Liard |            | Ft. Providence |            | Ft. Wrigley |            | Jean Marie River |            | Nahanni Butte |            |              |            | Trout Lake |            |
|                    | Native                 | Non-Native | Native    | Non-Native | Native         | Non-Native | Native      | Non-Native | Native           | Non-Native | Native        | Non-Native | Native       | Non-Native | Native     | Non-Native |
| GROUP III (cont'd) |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 551                |                        |            |           |            |                | (1)        |             | (1)        |                  |            |               |            | (5)          | 2          | (7)        | (18)       |
| 556 (Gp. II)       |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            | (1)        |            |
| 557 (Gp. II)       |                        | (1)        |           |            |                |            |             |            |                  |            |               |            |              | 1          | 1          |            |
| 569**              |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 611                |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 615**              |                        |            |           |            |                |            |             |            |                  |            | 2             |            |              | 1          | 3          | 1          |
| 760                |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 820                |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 823                |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 824 (Gp. II)       |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 827                |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 828                |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 851 (Gp. II, I)    |                        | (1)        |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 852 (Gp. II)       |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 855 (Gp. II)       |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 859**              |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 876 (Gp. II, I)    |                        | (5)        |           |            | (3)            |            | (1)         |            |                  |            | (1)           |            | (1)          | (1)        | (1)        | (15)       |
| 877 (Gp. II)       |                        |            |           |            |                |            |             |            |                  |            |               |            |              | (2)        | (2)        |            |
| 878**              |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 881**              |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |
| 882**              |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            | 6          | (1)        |
| 900 (Gp. II)       |                        |            |           |            |                |            |             |            |                  |            |               |            |              |            |            |            |

<sup>1/</sup> Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ( ).

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.

## Appendix 21 (cont'd)

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

## UPPER MACKENZIE REGION

|                      | Ft. Simpson |            | Ft. Liard |            | Ft. Providence |            | Ft. Wigley |            | Jean Marie River |            | Nahanni Butte |            | Trout Lake |            | Hay River |            | Total Region |            |
|----------------------|-------------|------------|-----------|------------|----------------|------------|------------|------------|------------------|------------|---------------|------------|------------|------------|-----------|------------|--------------|------------|
|                      | Native      | Non-Native | Native    | Non-Native | Native         | Non-Native | Native     | Non-Native | Native           | Non-Native | Native        | Non-Native | Native     | Non-Native | Native    | Non-Native | Native       | Non-Native |
| GROUP III (cont'd)   |             |            |           |            |                |            |            |            |                  |            |               |            |            |            |           |            |              |            |
| 920**                | 17          |            | 1         |            | 14             |            | 12         |            |                  |            |               |            | 31         |            | 13        |            | 75           | 13         |
| 921                  |             |            |           |            |                |            |            |            |                  |            |               |            | 1          |            | 1         |            | 1            | 1          |
| 922                  |             |            |           |            |                |            |            |            |                  |            |               |            | 1          |            |           |            | 1            |            |
| 923                  |             |            |           |            |                |            |            |            |                  |            |               |            |            |            |           |            |              |            |
| 924                  |             |            |           |            |                |            |            |            |                  |            |               |            |            |            |           |            |              |            |
| 925**                | 5           |            |           |            |                |            |            |            |                  |            |               |            | 1          |            | 2         |            | 1            | 2          |
| 926**                |             |            |           |            |                |            |            |            |                  |            |               |            | 2          |            | 2         |            | 7            | 2          |
| 928(Gp. II)          | (1)         |            | (1)       |            |                |            |            |            |                  |            |               |            | (6)        |            | (2)       |            | (8)          | (2)        |
| 929**                |             |            |           |            |                |            |            |            |                  |            |               |            |            |            |           |            |              |            |
| 930                  |             |            |           |            |                |            |            |            |                  |            |               |            |            |            |           |            |              |            |
| 931                  |             |            |           |            |                |            |            |            |                  |            |               |            |            |            |           |            |              |            |
| 932                  |             |            |           |            |                |            |            |            |                  |            |               |            |            |            |           |            |              |            |
| TOTAL Group III      | 25          | 10         | 2         |            | 19             |            | 13         |            | 3                |            |               |            | 45         |            | 97        |            | 107          | 107        |
| GROUP IV             |             |            |           |            |                |            |            |            |                  |            |               |            |            |            |           |            |              |            |
| 459(Gps. II, III)    |             |            |           |            | (1)            |            |            |            |                  |            |               |            |            |            |           |            | (1)          | (1)        |
| 569(Gp. III)         |             |            |           |            |                |            |            |            |                  |            |               |            |            |            |           |            | (1)          | (1)        |
| 615(Gp. III)         |             |            | (1)       |            |                |            |            |            |                  |            |               |            |            |            |           |            | (3)          | (1)        |
| 851(Gps. I, II, III) |             | (1)        |           |            |                |            |            |            | (2)              |            |               |            | (1)        |            | (1)       |            | (1)          | (2)        |

<sup>1/</sup> Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked are counted only once, the first time they occur; in other groups they are placed in brackets ( ).

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.

## Appendix 21 (cont'd)

INVENTORY OF PIPELINE CONSTRUCTION/OPERATION-RELATED SKILLS<sup>1/</sup>  
BY ETHNIC ORIGIN AND SETTLEMENT, MACKENZIE DISTRICT IMPACT CORRIDOR AND N.W.T.

| UPPER MACKENZIE REGION |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|------------------------|------------|-----------|------------|----------------|------------|-------------|------------|------------------|------------|---------------|------------|------------|------------|-----------|------------|--------------|------------|
| Ft. Simpson            |            | Ft. Liard |            | Ft. Providence |            | Ft. Wrigley |            | Jean Marie River |            | Nahanni Butte |            | Trout Lake |            | Hay River |            | Total Region |            |
| Native                 | Non-Native | Native    | Non-Native | Native         | Non-Native | Native      | Non-Native | Native           | Non-Native | Native        | Non-Native | Native     | Non-Native | Native    | Non-Native | Native       | Non-Native |
| GROUP IV (cont'd)      |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
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|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
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|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
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|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
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|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |
|                        |            |           |            |                |            |             |            |                  |            |               |            |            |            |           |            |              |            |

1/ Skills are standard occupational classifications used by Statistics Canada and in the D.I.A.N.D. Northern Manpower Survey Program. See Table 6, chapter 2, page 2-22 for occupations which apply to the code numbers.

\*\* Indicates need for particular occupation in one or more of the succeeding skill groups. Occupations so marked only once, the first time they occur; in other groups they are placed in brackets ( ).

only once, the first time survey was conducted in 1969.  
Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970, Table 57.

LOWER MACKENZIE REGION

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970

11/ See Table 19, Chapter 2; page 2-58 for list of occupations

## Appendix 22 (cont'd)

1/ OF SELECTED OCCUPATIONS INDICATING GENERAL LEVELS OF RESIDENTS  
14 YEARS OF AGE AND OVER BY ETHNIC ORIGIN AND SETTLEMENT WITHIN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

## LOWER MACKENZIE REGION

| Occupation | Inuvik |            | Aklavik |            | Arctic |            | Ft. McPherson |            | Tuktoyaktuk |            | Total Region |            |
|------------|--------|------------|---------|------------|--------|------------|---------------|------------|-------------|------------|--------------|------------|
|            | Native | Non-Native | Native  | Non-Native | Native | Non-Native | Native        | Non-Native | Native      | Non-Native | Native       | Non-Native |
| 657        |        |            |         |            |        |            |               |            |             |            |              |            |
| 658        |        |            |         |            |        |            |               |            |             |            |              |            |
| 659        |        |            |         |            |        |            |               |            |             |            |              |            |
| 759        |        |            |         |            |        |            |               |            |             |            |              |            |
| 819        |        |            |         |            |        |            |               |            |             |            |              |            |
| 830        |        |            |         |            |        |            |               |            |             |            |              |            |
| 871        |        |            |         |            |        |            |               |            |             |            |              |            |
| 883        |        |            |         |            |        |            |               |            |             |            |              |            |
| 927        |        |            |         |            |        |            |               |            |             |            |              |            |
| Total      | 33     | 49         | 20      | 1          | 2      | 0          | 10            | 2          | 22          | 0          | 87           | 52         |
|            |        |            |         |            |        |            |               |            |             |            |              | 139        |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970

1/ See Table 19, Chapter 2; page 2-58 for list of occupations.



## CENTRAL MACKENZIE REGION

[illegible]

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970.

11/ See Table 19, Chapter 2, page 2-58 for list of occupations.

## Appendix 22 (cont'd)

DETAILED INVENTORY<sup>1/</sup> OF SELECTED OCCUPATIONS INDICATING GENERAL SKILL LEVELS OF RESIDENTS  
14 YEARS OF AGE AND OVER BY ETHNIC ORIGIN AND SETTLEMENT WITHIN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

## CENTRAL MACKENZIE REGION

| <u>Occupation</u> | <u>Norman Wells</u> |                   | <u>Colville Lake</u> |                   | <u>Fort Franklin</u> |                   | <u>Ft. Good Hope</u> |                   | <u>Fort Norman</u> |                   | <u>Total Region</u> |                   |
|-------------------|---------------------|-------------------|----------------------|-------------------|----------------------|-------------------|----------------------|-------------------|--------------------|-------------------|---------------------|-------------------|
|                   | <u>Native</u>       | <u>Non-Native</u> | <u>Native</u>        | <u>Non-Native</u> | <u>Native</u>        | <u>Non-Native</u> | <u>Native</u>        | <u>Non-Native</u> | <u>Native</u>      | <u>Non-Native</u> | <u>Native</u>       | <u>Non-Native</u> |
| 657               |                     |                   |                      |                   |                      |                   |                      |                   |                    |                   |                     |                   |
| 658               |                     |                   |                      |                   |                      |                   |                      |                   |                    |                   |                     |                   |
| 659               |                     |                   |                      |                   |                      |                   |                      |                   |                    |                   |                     |                   |
| 759               |                     |                   |                      |                   |                      |                   |                      |                   |                    |                   |                     |                   |
| 819               |                     |                   |                      |                   |                      |                   |                      |                   |                    |                   |                     |                   |
| 830               |                     |                   |                      |                   |                      |                   |                      |                   |                    |                   |                     |                   |
| 871               |                     |                   |                      |                   |                      |                   |                      |                   |                    |                   |                     |                   |
| 883               |                     |                   |                      |                   |                      |                   |                      |                   |                    |                   |                     |                   |
| 927               |                     |                   |                      |                   |                      |                   |                      |                   |                    |                   |                     |                   |
| Total             | 0                   | 7                 | 2                    | 0                 | 8                    | 0                 | 9                    | 0                 | 6                  | 4                 | 25                  | 11                |
|                   |                     |                   |                      |                   |                      |                   |                      |                   |                    |                   |                     | 36                |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970.

<sup>1/</sup> See Table 19, Chapter 2, page 2-58 for list of occupations.

## Appendix 22 (cont'd)

DETAILED INVENTORY<sup>1/</sup> OF SELECTED OCCUPATIONS INDICATING GENERAL SKILL LEVELS OF RESIDENTS  
14 YEARS OF AGE AND OVER BY ETHNIC ORIGIN AND SETTLEMENT WITHIN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

## UPPER MACKENZIE REGION

| Occupation | Ft. Simpson |        | Ft. Liard  |        | Ft. Providence |        | Ft. Wrigley |        | Jean Butte |        | Hay River  |        | Total Region |       |
|------------|-------------|--------|------------|--------|----------------|--------|-------------|--------|------------|--------|------------|--------|--------------|-------|
|            | Native      |        | Native     |        | Native         |        | Native      |        | Native     |        | Native     |        | Native       |       |
|            | Non-Native  | Native | Non-Native | Native | Non-Native     | Native | Non-Native  | Native | Non-Native | Native | Non-Native | Native | Non-Native   | Total |
| 133        |             |        |            |        |                |        |             |        |            |        | 1          | 1      |              | 1     |
| 137        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 139        |             |        |            |        |                |        |             |        |            |        | 12         | 16     |              | 16    |
| 142        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 143        | 3           |        | 1          |        |                |        |             |        |            |        | 2          | 2      |              | 2     |
| 148        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 150        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 191        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 192        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 401        |             |        |            |        | 4              |        |             |        |            |        |            |        |              |       |
| 409        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 410        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 416        | 1           |        |            |        |                |        |             |        |            |        | 3          | 1      | 9            | 10    |
| 420        |             |        |            |        |                |        |             |        |            |        | 1          | 1      | 1            | 1     |
| 454        | 2           |        |            |        |                |        |             |        |            |        | 3          | 6      | 5            | 3     |
| 471        |             |        |            |        |                |        |             |        |            |        | 2          | 2      | 2            | 12    |
| 541        |             |        |            |        | 5              |        |             |        |            |        | 9          | 13     | 15           | 15    |
| 543        |             |        |            |        |                |        |             |        |            |        | 2          | 2      | 2            | 2     |
| 545        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 547        | 1           |        |            |        | 1              |        |             |        |            |        | 3          | 1      | 4            | 5     |
| 552        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 651        | 1           |        |            |        |                |        |             |        |            |        | 1          | 1      | 2            | 3     |
| 652        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 653        |             |        |            |        |                |        |             |        |            |        | 1          | 1      | 1            | 1     |
| 654        |             |        |            |        |                |        |             |        |            |        |            |        |              |       |
| 656        |             |        |            |        |                |        |             |        |            |        | 1          | 1      | 7            | 8     |

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970

<sup>1/</sup> See Table 19, Chapter 2, page 2-58 for list of occupations.

## Appendix 22 (cont'd)

DETAILED INVENTORY<sup>1/</sup> OF SELECTED OCCUPATIONS INDICATING GENERAL SKILL LEVELS OF RESIDENTS 14 YEARS OF AGE AND OVER BY ETHNIC ORIGIN AND SETTLEMENT WITHIN THE MACKENZIE IMPACT CORRIDOR, N.W.T.

[illegible]

Source: DIAND Mackenzie Manpower Survey, October 1, 1969 - September 30, 1970.

1/ See Table 19, Chapter 2, page 2-58 for list of occupations.

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Part 3

REQUIREMENTS TO ACHIEVE EXTENSIVE TERRITORIAL  
RESIDENT EMPLOYMENT AND PARTICIPATION  
IN PIPELINE AND OTHER DEVELOPMENT PROJECTS



## Part 3

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## Part 3

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## CHAPTER 1

INTRODUCTIONPurpose

The foregoing parts of Volume 6 examined the population and labour force of the Mackenzie Impact Corridor in some detail, on the basis of material obtained from the D.I.A.N.D. Mackenzie Manpower Survey. The labour demands in terms of numbers and kinds of workers anticipated for pipeline and associated work are discussed, and the base year labour supply situation examined in relation to likely pipeline demands.

Certain special efforts will be required in order to involve territorial residents actively and effectively in pipeline work. The greatest proportion of all special programs will need to be concerned with the native population. Stepped-up education and training programs will be required. Special efforts will be required in connection with recruitment particularly of native workers as well as in ensuring that they will be able to cope not only with the actual work, but also with the total work situation.

Of particular concern are such aspects as training and recruitment costs, working conditions, e.g., hiring, work leave, travel, which will have associated costs. These costs must be identified as far as possible in advance of commencement of actual pipeline construction, since allowance must be made in government plans and budgets. Training needs and associated costs must be identified almost immediately, since training of a general nature, much of which involves accelerating existing programs, may begin at any time.

The purpose of Part 3 is the discussion of some of these aspects. Some of the requirements to achieve projected levels of territorial resident employment on the pipeline are identified. In general, Part 3 analyses and discusses those requirements necessary to employ the territorial labour force, particularly the native component, in pipeline construction and maintenance, and assesses the nature and cost of the required mobilization, training and related programs necessary to ensure maximum long-term benefits to the local labour force.



## CHAPTER 2

BASIC EDUCATION AND TRAININGIncreased School Enrolment

In Chapter 2 of Part 1, the levels of basic education of the corridor population are discussed. Tables 7 and 8, Part 1, show that the native population had a generally lower level of education than the non-native population, and that there were relatively few native residents enrolled in the senior grades of high school.

In 1955, a major education program for the N.W.T. was launched by the federal government. Its objectives were: to provide sufficient facilities for enrolling all northern residents in school; to provide other types of training for those persons who were beyond normal school age, as well as those persons who had received elementary school education but were neither suited for nor inclined to take secondary school courses. As shown in Table 1, fairly rapid progress was made in the provision of school facilities throughout the N.W.T. Local elementary schools were established to serve nearly all territorial residents, with the exception of the very small settlements. Children from those small settlements which do not have elementary schools have been sent away to attend school in larger settlements, as have those children who have progressed beyond the level offered in their local school.

Enrolment of all school-age children, particularly of native children, has taken longer, but has nevertheless been almost completely achieved by now. Enrolment has grown rapidly over the years (Table 2), with native enrolment increasing steadily. After 1960, the education program was broadened considerably, and increased emphasis was placed on vocational and adult training programs. At present, however, there are still far more students in the elementary grades than there are in the secondary school grades (Tables 3, 4). The Mackenzie District, with its large non-native population, shows a relatively even distribution of pupils throughout both the elementary and secondary levels, in sharp contrast to the Arctic District, which has a higher proportion of native students than non-native students. The difference would also derive from the fact that the majority of the Mackenzie District native population had access to schools long before most Eastern Arctic natives. However, the representation in secondary school grades of even Mackenzie District natives has not been high in the past, as evident from the figures on N.W.T. Indian students in Table 5.

It is assumed that recruitment of native workers for the pipeline will be emphasized most strongly within the Impact Corridor, followed by recruitment from the Mackenzie District, with less emphasis placed on recruitment in the Eastern Arctic. It is important, therefore, to examine the educational background of the residents of these regions in order to assess the potential capabilities of the residents of these regions to work, and/or to take related training. Comparison of Tables 6, 7 and 8



Table 1

GROWTH OF SCHOOL FACILITIES IN THE NORTHWEST TERRITORIES  
1949-50 - 1970-71

| Year    | No. of <sup>1/</sup><br>Government<br>Schools | No. of <sup>2/</sup><br>Other<br>Schools | Total<br>Schools | No. of<br>Government<br>Classrooms | No. of<br>Other<br>Classrooms | Total<br>Classrooms | No. of<br>Government<br>Teachers | No. of<br>Other<br>Teachers | Total<br>Teachers |
|---------|---|--|------------------|------------------------------------|-------------------------------|---------------------|----------------------------------|-----------------------------|-------------------|
| 1949-50 | 13  | 9  | 22               | *                                  | *                             | *                   | *                                | *                           | *                 |
| 1950-51 | 18  | 9  | 27               | *                                  | *                             | *                   | *                                | *                           | *                 |
| 1951-52 | 19  | 9  | 28               | *                                  | *                             | *                   | *                                | *                           | *                 |
| 1952-53 | 19  | 9  | 28               | *                                  | *                             | *                   | 25                               | 31                          | 56                |
| 1953-54 | 19  | 10                                       | 29               | *                                  | *                             | *                   | 27                               | 37                          | 64                |
| 1954-55 | 19  | 10                                       | 29               | *                                  | *                             | *                   | 37                               | 40                          | 77                |
| 1955-56 | 22  | 9  | 31               | 49                                 | 39                            | 88                  | 50                               | 41                          | 91                |
| 1956-57 | 27  | 10                                       | 37               | 59                                 | 42                            | 101                 | *                                | *                           | *                 |
| 1957-58 | 29  | 10                                       | 39               | 94                                 | 38                            | 132                 | 121                              | 51                          | 172               |
| 1958-59 | 40  | 9  | 49               | 119                                | 37                            | 156                 | 125                              | 35                          | 160               |
| 1959-60 | 42  | 8  | 50               | 155                                | 29                            | 184                 | 165                              | 36                          | 201               |
| 1960-61 | 44  | 3  | 47               | 168                                | 29                            | 197                 | 198                              | 36                          | 234               |
| 1961-62 | 43  | 3  | 46               | 169                                | 30                            | 199                 | 207                              | 34                          | 241               |
| 1962-63 | 46  | 4  | 50               | 191                                | 36                            | 227                 | 229                              | 38                          | 267               |
| 1963-64 | 46  | 4  | 50               | 247                                | 51                            | 298                 | 253                              | 41                          | 294               |
| 1964-65 | 48  | 5  | 53               | 271                                | 43                            | 314                 | 271                              | 43                          | 314               |
| 1965-66 | 48  | 5  | 53               | 277                                | 49                            | 326                 | 285                              | 46                          | 331               |
| 1966-67 | 49  | 5  | 54               | 299                                | 49                            | 348                 | 316                              | 50                          | 366               |
| 1967-68 | 51  | 5  | 56               | 317                                | 52                            | 369                 | 348                              | 48                          | 396               |
| 1970-71 | 52  | 5  | 57               | 449                                | 55                            | 504                 | 455                              | 68                          | 523               |

\* Accurate information not available.

1/ Federal schools became territorial schools following 1968-69.

2/ Company, church, municipal schools.

Source: Annual Reports, Department of Indian Affairs and Northern Development; Annual Reports, Government of the Northwest Territories.

Table 2

GROWTH OF PUPIL ENROLMENT BY ETHNIC ORIGIN IN SCHOOLS INSIDE THE  
NORTHWEST TERRITORIES 1/ 1949-50 - 1970-71

| <u>School<br/>Year</u> | <u>Eskimo<br/>Enrolment</u> | <u>Indian<br/>Enrolment</u> | <u>Other<br/>Enrolment</u> | <u>Total<br/>Enrolment</u> |
|------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|
| 1949-50 <sup>2/</sup>  | 141                         | 365                         | 609                        | 1,115                      |
| 1954-55 <sup>2/</sup>  | 374                         | 618                         | 1,037                      | 2,029                      |
| 1955-56 <sup>2/</sup>  | 454                         | 716                         | 1,108                      | 2,278                      |
| 1956-57 <sup>2/</sup>  | 556                         | 695                         | 1,188                      | 2,439                      |
| 1957-58 <sup>2/</sup>  | 783                         | 812                         | 1,323                      | 2,918                      |
| 1958-59 <sup>2/</sup>  | 930                         | 948                         | 1,522                      | 3,400                      |
| 1959-60 <sup>2/</sup>  | 1,205                       | 1,100                       | 1,787                      | 4,092                      |
| 1960-61 <sup>4/</sup>  | 1,397                       | 1,097                       | 1,966                      | 4,460                      |
| 1961-62 <sup>4/</sup>  | 1,526                       | 1,152                       | 2,147                      | 4,825                      |
| 1962-63 <sup>3/</sup>  | 1,806                       | 1,188                       | 2,318                      | 5,312                      |
| 1963-64 <sup>4/</sup>  | 1,879                       | 1,146                       | 2,500                      | 5,525                      |
| 1964-65 <sup>4/</sup>  | 1,932                       | 1,247                       | 2,715                      | 5,894                      |
| 1965-66 <sup>4/</sup>  | 2,148                       | 1,280                       | 2,890                      | 6,318                      |
| 1966-67 <sup>4/</sup>  | 2,500                       | 1,340                       | 3,053                      | 6,893                      |
| 1967-68 <sup>4/</sup>  | 2,795                       | 1,486                       | 3,350                      | 7,631                      |
| 1970-71 <sup>4/</sup>  | 3,843                       | 1,610                       | 4,612                      | 10,065                     |

1/ Refers only to those pupils enrolled in schools inside the N.W.T. excluding attendance at Churchill Vocational Centre, Churchill, Man.

2/ Enrolment as of March 31 of second part of year period.

3/ Period of year to which statistics refer not known.

4/ Enrolment as of September 30 of first part of year period.

Source: Annual Reports, Department of Indian Affairs and Northern Development;  
Annual Reports, Government of the Northwest Territories.

shows that for the Impact Corridor as a whole, enrolment among all population groups has increased significantly between 1964-65 and 1969-70 and 1970-71, as it has throughout the N.W.T. The number of students enrolled in academic upgrading courses has increased and there is some increase in the numbers of persons reaching secondary school levels. Unfortunately, the data does not allow a breakdown by grade according to ethnic origin. What is significant is that both in 1964-65 and 1969-70, in those settlements which are predominantly native, that is all corridor settlements except Hay River and Inuvik, very few students are enrolled beyond about grade 5. Additional data would be required to determine if students from these settlements have been sent elsewhere to school, even though the majority of the small settlement schools include, at least, grades 7 and 8. <sup>1/</sup>

Whereas in the sample years, most schools in the Lower and Upper Mackenzie Regions were running at, near or beyond capacity, schools in the Central Mackenzie operated consistently below capacity.

It can be argued that at the present time and possibly for some time in the future, most young native residents do not need to acquire a full formal high school education; that concentration should be in the occupational and vocational fields to fit them for employment. The answer can only be made in the context of policy objectives, i.e., whether the intent is to find employment for as many native territorial residents as possible even if most of the work is in the unskilled or semi-skilled occupations; whether it is to attempt to place increasing numbers of native residents into government jobs, or in business at increasingly higher skill levels, or ideally, a combination of both approaches. For immediate projects such as the construction of the Mackenzie Highway, emphasis may be placed on trades training and general vocational and practical training, which will also pay dividends when construction of the pipeline begins. For placement of numbers of native residents in the pipeline operation and maintenance work force, however, it is highly likely that most native workers will remain at the lower or more general levels of work, largely in the semi-skilled classifications, until such time as more native residents attain higher formal educational levels.

Past efforts to keep students in school, at least up to senior high school level, have been somewhat frustrated by a number of factors. Many persons were too old when they began formal schooling, and, therefore, lost interest in remaining in school once they reached about age 16. Many persons left school to obtain jobs; still others left school, even without employment prospects, because they felt it useless to continue, particularly in those northern areas where employment opportunities were limited.

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<sup>1/</sup> The large enrolments at Hay River and Inuvik schools are partially due to the fact that students from surrounding small settlements are sent to these major centres for high school education and most other training, such as vocational; many students from the corridor settlements would also be enrolled in Yellowknife and Fort Smith, either in vocational courses or high school.

Table 3

CLASSIFICATION BY GRADE OF PUPILS ENROLLED IN ELEMENTARY  
GRADES IN SCHOOLS INSIDE THE NORTHWEST TERRITORIES  
1963-64 - 1970-71

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I Mackenzie District

| Academic<br>Year | Enrolment by Grade or Class |           |            |           |          |           |            |             | Total<br>Elementary<br>Enrolment |
|------------------|-----------------------------|-----------|------------|-----------|----------|-----------|------------|-------------|----------------------------------|
|                  | <u>I</u>                    | <u>II</u> | <u>III</u> | <u>IV</u> | <u>V</u> | <u>VI</u> | <u>VII</u> | <u>VIII</u> |                                  |
| 1963-64          | 890                         | 573       | 538        | 464       | 417      | 358       | 302        | 195         | 3,737                            |
| 1964-65          | 931                         | 586       | 567        | 479       | 440      | 372       | 290        | 236         | 3,901                            |
| 1965-66          | 969                         | 582       | 576        | 519       | 428      | 386       | 362        | 288         | 4,110                            |
| 1966-67          | 1,046                       | 616       | 566        | 562       | 480      | 400       | 374        | 266         | 4,310                            |
| 1967-68          | 1,209                       | 695       | 639        | 581       | 564      | 450       | 406        | 315         | 4,859                            |
| 1968-69          | 933                         | 752       | 693        | 674       | 554      | 539       | 421        | 370         | 4,936                            |
| 1969-70          | 987                         | 764       | 768        | 672       | 665      | 489       | 477        | 384         | 5,206                            |
| 1970-71          | 965                         | 862       | 761        | 781       | 704      | 629       | 471        | 440         | 5,613                            |
|                  |                             |           |            |           |          |           |            |             | (6,161) <sup>1/</sup>            |

II Arctic District

|         |     |     |     |     |     |     |     |    |                       |
|---------|-----|-----|-----|-----|-----|-----|-----|----|-----------------------|
| 1963-64 | 501 | 212 | 185 | 109 | 73  | 34  | 12  | 9  | 1,135                 |
| 1964-65 | 556 | 260 | 166 | 114 | 74  | 30  | 6   | 3  | 1,209                 |
| 1965-66 | 538 | 251 | 227 | 153 | 76  | 40  | 10  | 6  | 1,301                 |
| 1966-67 | 687 | 254 | 273 | 217 | 117 | 57  | 21  | 8  | 1,634                 |
| 1967-68 | 551 | 317 | 262 | 235 | 141 | 98  | 27  | 8  | 1,639                 |
| 1968-69 | 615 | 340 | 258 | 252 | 200 | 123 | 35  | 16 | 1,839                 |
| 1970-71 | 513 | 387 | 373 | 288 | 227 | 179 | 103 | 46 | 2,116                 |
|         |     |     |     |     |     |     |     |    | (2,770) <sup>1/</sup> |

Source: Annual Reports, 1963-64 through 1970-71 Government of the Northwest Territories;  
records of Education Branch, Department of Indian Affairs and Northern Development.

<sup>1/</sup> Including kindergarten and beginners' class enrolment.



Table 4

CLASSIFICATION BY GRADE OF PUPILS ENROLLED IN SECONDARY, UNGRADED AND  
VOCATIONAL TRAINING COURSES IN SCHOOLS INSIDE THE NORTHWEST TERRITORIES  
1963-64 - 1970-71

| I Mackenzie District | Enrolment by Grade or Class |     |     |     |                                 |                       | Total<br>Ungraded &<br>Vocational |
|----------------------|-----------------------------|-----|-----|-----|---------------------------------|-----------------------|-----------------------------------|
|                      | IX                          | X   | XI  | XII | Total<br>Secondary<br>Enrolment | Ungraded<br>Enrolment | Vocational<br>Training            |
| 1963-64              | 175                         | 138 | 105 | 75  | 493                             | 44                    | 131                               |
| 1964-65              | 186                         | 132 | 115 | 103 | 536                             | 107                   | 139                               |
| 1965-66              | 221                         | 190 | 129 | 106 | 646                             | 191                   | 4                                 |
| 1966-67              | 209                         | 188 | 158 | 112 | 667                             | 110                   | 130                               |
| 1967-68              | 264                         | 215 | 160 | 140 | 779                             | 30                    | 69                                |
| 1968-69              | 264                         | 218 | 140 | 168 | 846                             | 307                   | 102                               |
| 1969-70              | 321                         | 271 | 184 | 189 | 965                             | N/Av                  | N/Av                              |
| 1970-71              | 359                         | 293 | 224 | 192 | 1,068                           | N/Av                  | N/Av                              |
| II Arctic District   |                             |     |     |     |                                 |                       |                                   |
| 1963-64              | 2                           | 3   | 0   | 0   | 5                               | 0                     | 0                                 |
| 1964-65              | 1                           | 5   | 1   | 0   | 7                               | 19                    | 19                                |
| 1965-66              | 3                           | 1   | 0   | 0   | 4                               | 19                    | 19                                |
| 1966-67              | 3                           | 4   | 0   | 0   | 7                               | 35                    | 35                                |
| 1967-68              | 5                           | 3   | 0   | 0   | 8                               | 230                   | 17                                |
| 1968-69              | 7                           | 1   | 0   | 0   | 8                               | 239                   | 207                               |
| 1970-71              | 11                          | 1   | 1   | 0   | 13                              | N/Av                  | N/Av                              |

Sources: Annual Reports 1963-64 through 1970-71, Government of the Northwest Territories; Education Branch,  
Department of Indian Affairs and Northern Development.



Table 5

GROWTH OF ENROLMENT OF INDIAN PUPILS  
IN ELEMENTARY, SECONDARY AND OTHER SCHOOLS  
NORTHWEST TERRITORIES  
1949-50 - 1965-66

| <u>School<br/>Year</u> | <u>Total <sup>1/</sup><br/>Elementary<br/>Enrolment</u> | <u>Total <sup>2/</sup><br/>Secondary<br/>Enrolment</u> | <u>Total <sup>3/</sup><br/>Other<br/>Enrolment</u> | <u>Total<br/>University<br/>Enrolment</u> | <u>Total <sup>4/</sup><br/>Ungraded<br/>Enrolment</u> | <u>Grand<br/>Total<br/>Enrolment</u> |
|------------------------|---|--|--|---|---|--------------------------------------|
| 1949-50                | 644   | 7  | -  | -   | -   | 651                                  |
| 1950-51                | 667   | 22   | -  | -   | -   | 689                                  |
| 1951-52                | Report Not Available                                    |  |  |   |   |                                      |
| 1952-53                | 448   | -  | -  | -   | -   | 448                                  |
| 1953-54                | 520   | -  | -  | -   | -   | 520                                  |
| 1954-55                | 645   | 7  | -  | -   | -   | 652                                  |
| 1955-56                | 675   | 11   | -  | -   | 2   | 688                                  |
| 1956-57                | 646   | 12   | 29   | -   | 40  | 727                                  |
| 1957-58                | 935   | 36   | 108  | -   | -   | 1,079                                |
| 1958-59                | 987   | 16   | 78   | -   | -   | 1,081                                |
| 1959-60                | 996   | 14   | 31   | -   | -   | 1,041                                |
| 1960-61                | 990   | 16   | -  | -   | 64  | 1,070                                |
| 1961-62                | 1,046   | 30   | 26   | -   | 2   | 1,104                                |
| 1962-63                | 1,081   | 44   | 3  | 1   | 30  | 1,159                                |
| 1963-64                | 1,027   | 58   | 68   | -   | 1   | 1,154                                |
| 1964-65                | 1,110   | 76   | n.s.   | n.s.                                      | n.s.  | 1,186                                |
| 1965-66                | 1,113   | 93   | n.s.   | n.s.                                      | 53  | 1,259                                |

1/ Grades K - VIII.

2/ Grades IX - XII.

3/ Enrolment in specialized courses, vocational training, normal school, etc.

4/ Pupils primarily in academic upgrading courses, unassigned to a specific level.

Source: Annual Reports, Department of Citizenship and Immigration.

Table 6

ENROLMENT AND CLASSIFICATION OF PUPILS IN N.W.T. SCHOOLS BY ETHNIC ORIGIN  
FOR MACKENZIE IMPACT CORRIDOR SETTLEMENTS AND N.W.T.  
1964-1965

| School                          | Capacity | No. of Teachers | No. of Classrooms |      |           | Enrolment by Status |        |        |        | Other |        |  |
|---------------------------------|----------|-----------------|-------------------|------|-----------|---------------------|--------|--------|--------|-------|--------|--|
|                                 |          |                 | Regular           |      | 1/<br>Sp. | Eskimo              |        | Indian |        | Male  | Female |  |
|                                 |          |                 | Elem.             | H.S. |           | Male                | Female | Male   | Female |       |        |  |
| <u>Lower Mackenzie Region</u>   |          |                 |                   |      |           |                     |        |        |        |       |        |  |
| Inuvik                          | 700      | 47              | 23                | 11   | 8         | 171                 | 193    | 67     | 77     | 214   | 167    |  |
| Aklavik                         | 150      | 7               | 5                 | 1    |           | 35                  | 30     | 13     | 18     | 22    | 21     |  |
| Ft. McPherson                   | 200      | 8               | 6                 | 2    | 3         | 1                   | 2      | 47     | 77     | 20    | 23     |  |
| Tuktoyaktuk                     | 125      | 5               | 4                 | 1    | 2         | 58                  | 52     | 2      | 0      | 6     | 2      |  |
| Total Region                    | 1,175    | 67              | 38                | 15   | 13        | 265                 | 277    | 129    | 172    | 262   | 213    |  |
| <u>Central Mackenzie Region</u> |          |                 |                   |      |           |                     |        |        |        |       |        |  |
| Norman Wells                    | 50       | 2               | 2                 |      |           |                     |        |        |        | 10    | 14     |  |
| Ft. Franklin                    | 100      | 4               | 3                 | 1    | 2         |                     |        | 36     | 53     | 2     | 2      |  |
| Ft. Good Hope                   | 50       | 1               | 1                 |      |           |                     |        | 7      | 8      | 10    | 6      |  |
| Ft. Norman                      | 50       | 2               | 2                 |      |           |                     |        | 11     | 11     | 22    | 22     |  |
| Total Region                    | 250      | 9               | 8                 | 1    | 2         |                     |        | 54     | 72     |       |        |  |
| <u>Upper Mackenzie Region</u>   |          |                 |                   |      |           |                     |        |        |        |       |        |  |
| Ft. Simpson                     | 350      | 19              | 11                | 3    | 4         | 15                  | 9      | 73     | 109    | 47    | 46     |  |
| Ft. Liard                       | 25       | 1               | 1                 |      |           |                     |        | 6      | 1      | 2     | 2      |  |
| Ft. Providence                  | 60       | 3               | 3                 |      |           |                     |        | 21     | 27     | 8     | 7      |  |
| Ft. Wrigley                     | 25       | 1               | 1                 |      |           |                     |        | 12     | 8      |       |        |  |
| Jean Marie River                | 25       | 1               | 1                 |      |           |                     |        | 7      | 9      | 1     | 197    |  |
| Nahanni Butte                   | 25       | 1               | 1                 |      |           |                     |        | 11     | 9      |       |        |  |
| Hay River                       | 480      | 23              | 12                | 8    | 4         |                     |        | 17     | 17     | 240   |        |  |
| Total Region                    | 990      | 49              | 30                | 11   | 8         | 15                  | 9      | 147    | 180    | 298   | 252    |  |
| Total Impact Corridor           | 2,415    | 125             | 76                | 27   | 23        | 280                 | 286    | 330    | 424    | 582   | 487    |  |
| Total Balance of District       | 2,480    | 124             | 68                | 29   | 21        | 117                 | 134    | 269    | 224    | 815   | 735    |  |
| Total Mackenzie District        | 4,895    | 249             | 144               | 56   | 44        | 397                 | 420    | 599    | 648    | 1,397 | 1,222  |  |
| Rest of N.W.T.                  | 1,475    | 75              | 63                | 1    | 11        | 616                 | 603    |        |        | 48    | 49     |  |
| Total N.W.T.                    | 6,370    | 324             | 207               | 57   | 55        | 1,013               | 1,023  | 599    | 648    | 1,445 | 1,271  |  |

1/ Special classrooms - activities other than straight classroom instruction.

Source: Education Branch, Department of Indian Affairs and Northern Development.

ENROLMENT AND CLASSIFICATION OF PUPILS IN N.W.T. SCHOOLS BY ETHNIC ORIGIN  
FOR MACKENZIE IMPACT CORRIDOR SETTLEMENTS AND N.W.T.

1964-1965

| School                    | Y.T. 2/ | A.U. 3/ | Enrolment by Grade or Class |     |     |     |     |     |     |     |     |     |     |    | Total Enrolment |
|---------------------------|---------|---------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----------------|
|                           |         |         | 1                           | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12 |                 |
| Lower Mackenzie Region    |         |         |                             |     |     |     |     |     |     |     |     |     |     |    |                 |
| Inuvik                    | 39      | 189     | 99                          | 106 | 77  | 82  | 70  | 50  | 38  | 56  | 35  | 25  | 23  |    | 889             |
| Aklavik                   |         | 36      | 13                          | 20  | 16  | 24  | 15  | 11  | 4   |     |     |     |     |    | 139             |
| Ft. McPherson             |         | 26      | 27                          | 24  | 24  | 17  | 20  | 18  | 14  |     |     |     |     |    | 170             |
| Tuktoyaktuk               |         | 35      | 21                          | 24  | 7   | 12  | 7   | 4   | 10  |     |     |     |     |    | 120             |
| Total Region              | 39      | 286     | 160                         | 174 | 124 | 135 | 112 | 83  | 66  | 56  | 35  | 25  | 23  |    | 1,318           |
| Central Mackenzie Region  |         |         |                             |     |     |     |     |     |     |     |     |     |     |    |                 |
| Norman Wells              |         | 2       | 4                           | 7   | 2   | 3   | 2   | 1   | 3   |     |     |     |     |    | 24              |
| Ft. Franklin              | 17      | 11      | 7                           | 21  | 17  | 6   | 5   | 4   | 1   |     |     |     |     |    | 89              |
| Ft. Good Hope             | 4       | 3       | 2                           | 1   | 5   | 4   |     |     |     |     |     |     |     |    | 19              |
| Ft. Norman                |         | 13      | 5                           | 9   | 5   | 3   | 3   |     |     |     |     |     |     |    | 38              |
| Total Region              | 21      | 29      | 18                          | 38  | 29  | 12  | 14  | 5   | 4   |     |     |     |     |    | 170             |
| Upper Mackenzie Region    |         |         |                             |     |     |     |     |     |     |     |     |     |     |    |                 |
| Ft. Simpson               | 17      | 47      | 32                          | 41  | 42  | 40  | 23  | 23  | 22  | 7   | 5   |     |     |    | 299             |
| Ft. Liard                 |         | 1       | 2                           | 2   | 1   | 3   | 2   |     |     |     |     |     |     |    | 11              |
| Ft. Providence            |         | 18      | 8                           | 10  | 10  | 10  | 7   |     |     |     |     |     |     |    | 63              |
| Ft. Wrigley               |         | 5       | 5                           |     | 9   | 1   |     |     |     |     |     |     |     |    | 20              |
| Jean Marie River          |         | 5       | 2                           |     | 1   | 4   | 4   |     |     |     |     |     |     |    | 16              |
| Nahanni Butte             |         | 6       | 4                           | 7   | 3   | 1   |     |     |     |     |     |     |     |    | 21              |
| Hay River                 |         | 57      | 64                          | 58  | 52  | 49  | 38  | 45  | 36  | 35  | 17  | 18  |     |    | 471             |
| Total Region              | 17      | 141     | 117                         | 118 | 118 | 107 | 75  | 68  | 58  | 42  | 22  | 18  |     |    | 901             |
| Total Impact Corridor     | 77      | 456     | 295                         | 330 | 271 | 254 | 201 | 156 | 128 | 98  | 57  | 43  | 23  |    | 2,389           |
| Total Balance of District | 113     | 84      | 399                         | 305 | 262 | 243 | 221 | 148 | 136 | 98  | 84  | 72  | 63  | 66 | 2,294           |
| Total Mackenzie District  | 113     | 161     | 855                         | 600 | 592 | 514 | 475 | 349 | 292 | 226 | 182 | 129 | 106 | 89 | 4,683           |
| Rest of N.W.T.            | 105     | 157     | 359                         | 278 | 197 | 122 | 54  | 29  | 7   | 3   | 2   | 2   | 1   |    | 1,316           |
| Total N.W.T.              | 218     | 318     | 1,214                       | 878 | 789 | 636 | 529 | 378 | 299 | 229 | 184 | 131 | 107 | 89 | 5,999           |

2/ Vocational Training.

3/ Academic upgrading.

Table 7

ENROLMENT AND CLASSIFICATION OF PUPILS IN N.W.T. SCHOOLS BY ETHNIC  
ORIGIN FOR MACKENZIE IMPACT CORRIDOR SETTLEMENTS AND N.W.T.  
1969-1970

| School                          | Capacity | No. of Teachers | No. of Classroom |      | Sp.1/ | Enrolment by Status |        |        |        |       |        |
|---------------------------------|----------|-----------------|------------------|------|-------|---------------------|--------|--------|--------|-------|--------|
|                                 |          |                 | Regular Elem.    | H.S. |       | Eskimo              |        | Indian |        | Other |        |
|                                 |          |                 |                  |      |       | Male                | Female | Male   | Female | Male  | Female |
| <u>Lower Mackenzie Region</u>   |          |                 |                  |      |       |                     |        |        |        |       |        |
| Inuvik Elem.                    | 820      | 42              | 34               | 15   | 7     | 127                 | 127    | 28     | 17     | 221   | 203    |
| Inuvik High                     | 400      | 25              |                  |      |       | 63                  | 69     | 25     | 32     | 95    | 87     |
| Aklavik                         | 250      | 11              | 8                | 2    | 4     | 57                  | 53     | 15     | 28     | 32    | 23     |
| Ft. McPherson                   | 200      | 10              | 10               |      | 4     |                     |        | 70     | 96     | 26    | 15     |
| Arctic Red River                | 25       | 1               | 1                |      |       |                     |        | 9      | 5      | 2     | 2      |
| Tuktoyaktuk                     | 175      | 7               | 6                | 1    | 4     | 74                  | 77     | 3      | 2      | 6     | 9      |
| Total Region                    | 1,870    | 96              | 59               | 18   | 19    | 321                 | 326    | 150    | 180    | 382   | 339    |
| <u>Central Mackenzie Region</u> |          |                 |                  |      |       |                     |        |        |        |       |        |
| Norman Wells                    | 50       | 2               | 2                |      |       |                     |        |        |        | 21    | 14     |
| Ft. Franklin                    | 150      | 5               | 4                | 1    |       |                     |        | 35     | 51     | 8     | 6      |
| Ft. Good Hope                   | 50       | 3               | 2                |      |       |                     |        | 20     | 34     | 10    | 13     |
| Ft. Norman                      | 75       | 3               | 3                |      |       |                     |        | 14     | 21     | 22    | 12     |
| Total Region                    | 325      | 13              | 11               | 1    |       |                     |        | 69     | 106    | 61    | 45     |
| <u>Upper Mackenzie Region</u>   |          |                 |                  |      |       |                     |        |        |        |       |        |
| Ft. Simpson                     | 350      | 21              | 10               | 3    | 3     | 17                  | 15     | 97     | 103    | 79    | 58     |
| Ft. Liard                       | 25       | 1               | 1                |      | 1     |                     |        | 6      | 10     | 2     | 4      |
| Ft. Providence                  | 150      | 6               | 5                | 1    | 2     |                     |        | 52     | 50     | 20    | 14     |
| Ft. Wrigley                     | 50       | 2               | 2                |      |       |                     |        | 12     | 15     |       |        |
| Jean Marie River                | 20       | 1               | 1                |      |       |                     |        | 4      | 8      |       |        |
| Nahanni Butte                   |          |                 |                  |      |       |                     |        |        |        |       |        |
| Hay River Elem.                 | 300      | 11              | 9                |      | 1     |                     | 3      | 9      | 6      | 130   | 129    |
| Hay River High                  | 200      | 13              |                  | 8    |       |                     |        |        | 3      | 93    | 94     |
| Hay River Sep.                  | 200      | 12              | 7                | 3    | 5     |                     |        | 3      | 7      | 80    | 82     |
| Total Region                    | 1,295    | 67              | 35               | 15   | 12    | 17                  | 18     | 183    | 202    | 404   | 381    |
| Total Impact Corridor           | 3,490    | 176             | 105              | 34   | 31    | 338                 | 344    | 402    | 488    | 847   | 765    |
| Total Rest of Region            | 3,955    | 202             | 108              | 43   | 47    | 304                 | 301    | 330    | 325    | 1,265 | 1,034  |
| Total Mackenzie Region          | 7,445    | 378             | 213              | 77   | 78    | 642                 | 645    | 732    | 813    | 2,112 | 1,799  |

1/ Special classrooms - activities other than straight classroom instruction.

Source: N.W.T. Department of Education, Yellowknife.

ENROLMENT AND CLASSIFICATION OF PUPILS IN N.W.T. SCHOOLS BY ETHNIC ORIGIN  
FOR MACKENZIE IMPACT CORRIDOR SETTLEMENTS AND N.W.T.

1969-1970

| School                   | V.T. <sup>2</sup> /<br>A.U. <sup>3</sup> /<br>Enrolment | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | Total |
|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Lower Mackenzie Region   |   |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Inuvik Elem.             |   | 119 | 145 | 118 | 104 | 65  | 107 | 65  |     |     |     |     |     | 723   |
| Inuvik High              | 10  |     |     |     |     |     |     |     | 86  | 67  | 88  | 62  | 30  | 28    |
| Aklavik                  |   | 21  | 41  | 17  | 42  | 23  | 18  | 10  | 22  | 14  |     |     |     | 371   |
| Ft. McPherson            |   | 20  | 38  | 26  | 22  | 23  | 29  | 16  | 13  | 20  |     |     |     | 208   |
| Arctic Red River         |   | 6   | 5   | 4   | 1   | 2   |     |     |     |     |     |     |     | 207   |
| Tuktoyaktuk              |   | 18  | 33  | 20  | 19  | 13  | 25  | 19  | 10  | 14  |     |     |     | 18    |
| Total Region             | 10  | 178 | 263 | 186 | 191 | 125 | 181 | 110 | 131 | 115 | 88  | 62  | 30  | 28    |
|                          |   |     |     |     |     |     |     |     |     |     |     |     |     | 1,698 |
| Central Mackenzie Region |   |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Norman Wells             |   | 4   | 5   | 5   | 8   | 3   | 3   | 7   |     |     |     |     |     | 35    |
| Ft. Franklin             |   | 21  | 16  | 15  | 15  | 6   | 10  | 10  | 7   |     |     |     |     | 100   |
| Ft. Good Hope            | 16  | 15  | 17  | 10  | 5   | 10  | 4   |     |     |     |     |     |     | 77    |
| Ft. Norman               | 7   | 12  | 12  | 10  | 9   | 5   | 7   | 5   | 2   |     |     |     |     | 69    |
| Total Region             | 23  | 52  | 50  | 40  | 37  | 24  | 24  | 22  | 9   |     |     |     |     | 281   |
| Upper Mackenzie Region   |   |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Ft. Simpson              | 53  | 53  | 37  | 57  | 37  | 39  | 29  | 25  | 26  | 13  |     |     |     | 369   |
| Ft. Liard                | 9   | 6   | 4   | 2   |     |     | 1   |     |     |     |     |     |     | 22    |
| Ft. Providence           | 21  | 40  | 11  | 10  | 13  | 16  | 9   | 12  | 4   |     |     |     |     | 136   |
| Ft. Wrigley              |   | 3   | 5   | 11  | 6   | 1   | 1   |     |     |     |     |     |     | 27    |
| Jean Marie River         |   | 3   |     | 4   | 2   | 2   |     |     | 1   |     |     |     |     | 12    |
| Nananni Butte            |   |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Hay River Elem.          | 31  | 54  | 34  | 49  | 37  | 41  | 31  |     |     |     |     |     |     | 277   |
| Hay River High           | 16  |     |     |     |     |     |     | 36  | 31  | 29  | 38  | 15  | 25  | 190   |
| Hay River Sep.           |   | 34  | 18  | 19  | 26  | 25  | 11  | 18  | 11  | 10  |     |     |     | 172   |
| Total Region             | 130   | 193 | 109 | 152 | 121 | 174 | 82  | 91  | 73  | 52  | 38  | 15  | 25  | 1,205 |
| Total Impact Corridor    | 10  | 331 | 508 | 345 | 383 | 283 | 329 | 216 | 244 | 197 | 140 | 100 | 45  | 53    |
| Total Rest of Region     | 33  | 188 | 479 | 419 | 395 | 389 | 336 | 273 | 233 | 187 | 181 | 171 | 139 | 136   |
| Total Mackenzie Region   | 43  | 519 | 987 | 764 | 778 | 672 | 665 | 489 | 477 | 384 | 321 | 271 | 184 | 189   |
|                          |   |     |     |     |     |     |     |     |     |     |     |     |     | 6,743 |

2/ Vocational Training.

3/ Academic Upgrading.



Table 8

ENROLMENT AND CLASSIFICATION OF PUPILS IN N.W.T. SCHOOLS BY ETHNIC ORIGIN  
FOR MACKENZIE IMPACT CORRIDOR AND SETTLEMENTS AND N.W.T.

1970-1971

| School                          | No. of Teachers | No. of Classrooms |               | Enrolment by Status |        |        |        |       |        |  |
|---------------------------------|-----------------|-------------------|---------------|---------------------|--------|--------|--------|-------|--------|--|
|                                 |                 | Regular Elem.     | Sp.1/<br>H.S. | Eskimo              |        | Indian |        | Other |        |  |
|                                 |                 |                   |               | Male                | Female | Male   | Female | Male  | Female |  |
| <u>Lower Mackenzie Region</u>   |                 |                   |               |                     |        |        |        |       |        |  |
| Inuvik Elementary               | 45              | 36                |               | 143                 | 132    | 27     | 24     | 238   | 203    |  |
| Inuvik High                     | 28              |                   | 16            | 70                  | 70     | 29     | 36     | 128   | 80     |  |
| Aklavik                         | 11              | 8                 | 2             | 61                  | 61     | 17     | 24     | 31    | 24     |  |
| Ft. McPherson                   | 11              | 10                | 4             | 4                   | 3      | 73     | 88     | 22    | 20     |  |
| Arctic Red River                | 1               | 1                 |               |                     |        | 8      | 3      | 2     | 1      |  |
| Tuktoyaktuk                     | 8               | 7                 | 1             | 81                  | 79     | 5      | 2      | 7     | 4      |  |
| Total Region                    | 104             | 62                | 19            | 359                 | 345    | 159    | 177    | 428   | 332    |  |
| <u>Central Mackenzie Region</u> |                 |                   |               |                     |        |        |        |       |        |  |
| Norman Wells                    | 2               | 2                 |               |                     |        | 1      | 1      | 24    | 17     |  |
| Fort Franklin                   | 4               | 1                 | 1             |                     |        | 42     | 66     | 8     | 7      |  |
| Fort Good Hope                  | 3               | 3                 |               |                     |        | 22     | 35     | 11    | 16     |  |
| Fort Norman                     | 3               |                   |               |                     |        | 12     | 23     | 14    | 11     |  |
| Total Region                    | 12              | 6                 | 1             |                     | 1      | 77     | 125    | 57    | 51     |  |
| <u>Upper Mackenzie Region</u>   |                 |                   |               |                     |        |        |        |       |        |  |
| Fort Simpson                    | 21              | 13                | 4             |                     | 1      | 96     | 110    | 115   | 82     |  |
| Fort Liard                      | 1               | 1                 |               |                     |        | 10     | 10     | 2     | 2      |  |
| Fort Providence                 | 7               | 6                 | 1             |                     |        | 52     | 55     | 28    | 18     |  |
| Fort Wrigley                    | 2               | 2                 |               |                     |        | 18     | 19     |       |        |  |
| Jean Marie River                | 1               | 1                 |               |                     |        | 8      | 8      | 1     |        |  |
| Hay River High                  | 18              |                   | 10            |                     |        | 2      |        | 107   | 134    |  |
| Hay River Elementary            | 19              | 19                |               |                     | 4      | 16     | 17     | 216   | 212    |  |
| Total Region                    | 69              | 42                | 15            |                     | 1      | 202    | 219    | 469   | 448    |  |
| Total Impact Corridor           | 185             | 110               | 35            |                     | 29     | 438    | 521    | 954   | 831    |  |

1/ Special classrooms - activities other than straight classroom instruction.

ENROLMENT AND CLASSIFICATION OF PUPILS IN N.W.T. SCHOOLS BY ETHNIC ORIGIN  
FOR MACKENZIE IMPACT CORRIDOR SETTLEMENTS AND N.W.T.  
1970-1971

| School                   | V.T. <sup>2/</sup> | A.U. <sup>3/</sup> | Enrolment by Class or Grade |     |     |     |     |     |     |     |     | Other <sup>4/</sup> | Total<br>Enrolment |     |    |       |
|--------------------------|--------------------|--------------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|---------------------|--------------------|-----|----|-------|
|                          |                    |                    | 1                           | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |                     |                    | 10  | 11 | 12    |
| Lower Mackenzie Region   |                    |                    |                             |     |     |     |     |     |     |     |     |                     |                    |     |    |       |
| Inuvik Elementary        | 52                 | 125                | 110                         | 124 | 123 | 67  | 106 |     | 82  | 77  | 90  | 73                  | 47                 | 25  | 60 | 767   |
| Inuvik High              | 19                 |                    |                             |     |     |     |     |     |     |     |     |                     |                    |     |    | 413   |
| Aklavik                  |                    | 42                 | 24                          | 20  | 38  | 26  | 19  | 14  | 15  | 15  |     |                     |                    |     | 20 | 218   |
| Fort McPherson           |                    | 23                 | 34                          | 16  | 23  | 24  | 20  | 17  | 15  |     |     |                     |                    |     | 38 | 210   |
| Arctic Red River         |                    | 2                  | 5                           | 4   | 2   | 1   |     |     |     |     |     |                     |                    |     |    | 14    |
| Tuktoyaktuk              |                    | 61                 | 8                           | 15  | 12  | 13  | 30  | 11  | 11  |     |     |                     |                    |     | 17 | 178   |
| Total Region             | 71                 | 253                | 181                         | 179 | 198 | 131 | 175 | 124 | 118 | 90  | 73  | 47                  | 25                 | 135 |    | 1,800 |
| Central Mackenzie Region |                    |                    |                             |     |     |     |     |     |     |     |     |                     |                    |     |    |       |
| Norman Wells             |                    | 11                 | 8                           | 3   | 4   | 5   | 2   | 4   | 6   |     |     |                     |                    |     |    | 43    |
| Fort Franklin            |                    | 14                 | 13                          | 15  | 13  | 15  | 5   | 14  | 7   |     |     |                     |                    |     | 27 | 123   |
| Fort Good Hope           |                    | 9                  | 20                          | 14  | 9   | 11  | 4   |     |     |     |     |                     |                    |     | 17 | 84    |
| Fort Norman              |                    | 8                  | 12                          | 9   | 9   | 10  | 5   |     |     |     |     |                     |                    |     | 7  | 60    |
| Total Region             |                    | 42                 | 53                          | 41  | 35  | 41  | 16  | 18  | 13  |     |     |                     |                    | 51  |    | 310   |
| Upper Mackenzie Region   |                    |                    |                             |     |     |     |     |     |     |     |     |                     |                    |     |    |       |
| Fort Simpson             | 10                 | 73                 | 50                          | 49  | 56  | 40  | 39  | 31  | 22  | 14  |     |                     |                    |     | 20 | 404   |
| Fort Liard               |                    | 8                  | 3                           | 2   | 5   | 1   | 1   |     |     |     |     |                     |                    |     | 4  | 24    |
| Fort Providence          |                    | 45                 | 28                          | 8   | 9   | 14  | 16  | 8   | 10  |     |     |                     |                    |     | 15 | 153   |
| Fort Wrigley             |                    | 7                  | 5                           | 7   | 8   | 6   | 4   |     |     |     |     |                     |                    |     |    | 37    |
| Jean Marie River         |                    | 4                  | 3                           | 2   | 2   | 5   | 1   |     |     |     |     |                     |                    |     |    | 17    |
| Hay River High           |                    | 65                 | 80                          | 60  | 68  | 70  | 60  | 52  | 55  | 37  | 50  | 22                  | 27                 |     |    | 243   |
| Hay River Elementary     |                    |                    |                             |     |     |     |     |     |     |     |     |                     |                    | 58  |    | 461   |
| Total Region             | 10                 | 202                | 169                         | 128 | 148 | 136 | 121 | 91  | 87  | 51  | 50  | 22                  | 27                 | 97  |    | 1,339 |
| Total Impact Corridor    | 81                 | 497                | 403                         | 348 | 381 | 308 | 312 | 233 | 218 | 141 | 123 | 69                  | 52                 | 283 |    | 3,449 |

2/ Vocational Training.

3/ Academic Upgrading.

4/ Includes pre-kindergarten, kindergarten and preparatory classes for children beyond kindergarten age but who have never attended school.

It is quite possible that more native students will remain longer in school when it becomes possible for them to obtain in their home areas or within the N.W.T. work for which they have been trained. In the meantime, jobs which require formal certification on completion of certain levels of high school or equivalent plus the requisite training will be closed to the majority of northern native residents. Similarly in the near future, only a few native residents will attain foremen positions or similar levels of work because large numbers of them lack the ability to express themselves in languages other than their own, or to read or write sufficiently to keep work sheets, accounts or any form of routine paper work.

The projected duration for pipeline construction is approximately nine years.<sup>1/</sup> During this period, there should be a substantial increase in the general academic qualifications of territorial native residents. Continuation of the current basic education policies, under which residents are given every encouragement to attend school for the maximum length of time, should result in there being greater numbers of better educated native residents within 10 years' time. Given the need to establish priorities and allocate resources over the next few years, emphasis may better be placed on improving the skill qualifications of the existing territorial native work force and of those members of the population who are now leaving school and of those who will be leaving the school system over the next five years.

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<sup>1/</sup> See Volume 7.

## CHAPTER 3

VOCATIONAL TRAININGObjectives

One of the objectives of the comprehensive education program launched in 1955 for the N.W.T. was the development of out-of-school training and general education programs for young people beyond school age and adults who had had no previous exposure to formal education or training of any type. This objective gave rise to the Vocational Education Program and the Adult Education Program.

All vocational programs were designed to bring students to a level at which they could compete for skilled or semi-skilled jobs either in the North or in southern Canada. The apprentice training program for the Northwest Territories was instituted with the objective of bringing tradesmen to equipvalent provincial standards.

An important component of the vocational program was the establishment of training and employment selection and placement service. Selection and placement officers were located in headquarters and in the field to assist residents in matters of training and employment, to liaise with potential and actual employers and education authorities.<sup>1/</sup>

Expanded  
Vocational Training

The northern vocational program has grown rapidly. In fiscal year 1953-54, under 200 candidates were covered; in 1971-72, around 1,700 (Tables 9, 10) N. W. T. residents had taken training under the program. The number and variety of training courses offered has also expanded considerably. Appendices 1, 2, 3, contain information on the types of training offered, as well as the number of candidates receiving the training. Through a combination of programs offered by the N. W. T. Government at

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<sup>1/</sup> This function, upon transfer of the program to the N.W.T. Government, was also taken over by Continuing and Special Education, but was re-organized (1972) so that the employment placement function is now with the N.W.T. Department of Local Government. The importance attached to employment of northern residents may be deduced from the fact that there are now two territorial government departments and three federal government departments directly involved- Indian Affairs (Employment Liaison Program), Manpower and Immigration, and Labour.

schools within the Territory <sup>1/</sup>, in special programs both within and elsewhere, and at accredited institutions outside the Territory, the program covers candidates of all ages and backgrounds. It reaches those of school age, those leaving school and those who have left school. It is also accessible to physically handicapped persons.

An indication of the range of programs provided by the program may be obtained from study of the curriculum of the Adult Vocational Training Center at Fort Smith, (1971/72):

|                              |                          |
|------------------------------|--------------------------|
| certified nursing assistants | clerk-typist             |
| cooking                      | driver education         |
| heavy equipment operation    | heavy equipment mechanic |
| pre-employment carpentry     | pre-employment welding   |
| telecommunications           | apprenticeship courses   |

These subjects call for candidates to attend for a minimum of a year. The trade training is supplemented with academic work, most of it oriented to the particular training involved. Academic upgrading for the various qualification processes is provided.

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<sup>1/</sup> Sir John Franklin School, Yellowknife; Hay River; Inuvik; Fort Smith Adult Vocational Training Center; Frobisher Bay; Rankin Inlet; special courses given in many other schools, plus on-the-job training taking place in nearly every N. W. T. community of any size.



Table 9

## SUMMARY OF VOCATIONAL TRAINING PROGRAM FOR N.W.T. RESIDENTS BY ETHNIC ORIGIN

| FISCAL YEARS 1953/54 - 1968/69                      |                   |        |                  |       |                   |        |        |        |       |
|---|-------------------|--------|------------------|-------|-------------------|--------|--------|--------|-------|
|   | 1953/54 - 1961/62 |        |                  |       | 1962/63 - 1968/69 |        |        |        | Total |
|   | Indian            | Eskimo | Native           | Other | Total             | Indian | Eskimo | Native | Other |
| Trained outside N.W.T. <sup>1/</sup>                | 136               | 300    | 436              | 194   | 630               | 280    | 942    | 1,222  | 772   |
| Trained within N.W.T. <sup>2/</sup>                 | 184               | 272    | 456              | 133   | 589               | 637    | 1,040  | 1,677  | 656   |
| Trained at Northern Vocation Centers: <sup>3/</sup> |                   |        |                  |       |                   |        |        |        |       |
| Sir John Franklin <sup>4/</sup>                     | 195               | 159    | 354              | 123   | 477               | 620    | 930    | 1,550  | 621   |
| Churchill Vocation Center <sup>5/</sup>             |                   |        | Not in operation |       |                   | -      | 188    | 188    | -     |
| All other <sup>6/</sup>                             | 195               | 159    | Not in operation |       |                   | 68     | 73     | 141    | 51    |
|   |                   |        | 354              | 123   | 477               | 688    | 1,191  | 1,879  | 672   |
| Grand Total   | 515               | 731    | 1,246            | 450   | 1,696             | 1,605  | 3,173  | 4,778  | 2,100 |

1/ At institutions, special courses given by government departments, on-the-job situation by employers.  
 2/ Within the N.W.T., but not in special schools, e.g., Sir John Franklin, Vocational School at Yellowknife.

3/ Excludes those listed as "trained within N.W.T."

4/ Began operation in fiscal year 1958-59.

5/ Churchill, Manitoba, began operation in fiscal year.

6/ Vocational occupational courses in schools at Inuvik, Fort Simpson, Hay River, Fort Smith.

Source: Education Branch, Department of Indian Affairs and Northern Development.

Table 10

SUMMARY OF ENROLMENT IN N. W. T. VOCATIONAL EDUCATION PROGRAM <sup>1/</sup> BY ETHNIC ORIGIN

FISCAL YEAR 1971/72

|   | <u>Eskimo</u> | <u>Indian</u> | <u>Other</u> | <u>Total</u> |
|---|---------------|---------------|--------------|--------------|
| <u>Training Within N. W. T.</u>                                       |               |               |              |              |
| Full-Time in School   | 432           | 211           | 108          | 751          |
| Correspondence Courses  | 3             | 2             | 3            | 8            |
| Adult Evening Classes   | 46            | 65            | 316          | 427          |
| Training-on-the-job   | <u>1</u>      | <u>5</u>      | <u>6</u>     | <u>12</u>    |
| Total   | 482           | 283           | 433          | 1,198        |
| <u>Training Outside N. W. T.</u>                                      |               |               |              |              |
| Alberta   | 17            | 22            | 57           | 96           |
| British Columbia  | 9             | 1             | 1            | 11           |
| Manitoba  | 6             |               | 1            | 7            |
| New Brunswick   |               |               | 1            | 1            |
| Ontario   | 56            | 2             | 9            | 67           |
| Quebec  |               |               | 1            | 1            |
| Saskatchewan  | <u>24</u>     | <u>7</u>      | <u>3</u>     | <u>34</u>    |
| Total   | 112           | 32            | 73           | 217          |
| Total in Training   | 594           | 315           | 506          | 1,415        |
| Students Receiving Grants for<br>Higher Education                     |               |               |              | 109          |
| Students Receiving Bursaries<br>for Higher Education                  |               |               |              | 10           |
| Handicapped Persons   |               |               |              | 34           |
| Apprentices   |               |               |              | <u>141</u>   |
| Grand Total of all Trainees under<br>Continuing and Special Education |               |               |              | 1,709        |

<sup>1/</sup> Responsibility of the Continuing and Special Education Division,  
Department of Education, N. W. T. Government, Yellowknife.

Source: Annual Report, N. W. T. Government, 1971/72.

Other N.W.T. schools, both regular day schools and special vocational schools, such as Sir John Franklin at Yellowknife, offer some of the same training and different types of training courses.

Training of one kind or another is available throughout the N. W. T., as well as at the major schools. Thus, nearly all N. W. T. residents have access to the vocational program (and, similarly, the adult education program). Table 11 gives a summary of the number of candidates taking vocational training, by their ethnic origin and their region of origin. Table 12 contains a breakdown by settlement of origin and ethnic origin of those students taking certain courses at the Adult Vocational Training Center at Fort Smith.

### Apprenticeship Program

The apprenticeship program has always been an important part of the vocational program. While the number of N. W. T. residents in apprenticeships has never been high, it has increased steadily over the years.<sup>1/</sup> The increase, as with that in the basic school program and in the general vocational program, has been due to two primary factors: 1) candidates with better backgrounds in terms of preparation and age-relation to the program are being enrolled; 2) each year more students or trainees remain longer with the programs, i.e., the drop-out rate particularly among native candidates has tended to decrease over recent years.

Apprenticeships conform to provincial standards, and the training involves requisite amounts of theory course-work each year and direct work experience. A wide variety of trades is represented, e.g., electricians, motor mechanics, carpenters, plumbers, oil burner mechanics. Those individuals undergoing their apprenticeships may be placed in industry or within the N. W. T. Government or the federal government, working on a full-time basis and paid at a scaled level of the prevailing rate for the particular trade according to level attained. For the duration of the four-year apprenticeship, each candidate completes six to eight weeks of course work yearly.

As of mid-June, 1972, there were 160 persons registered as apprentices in the N. W. T., of which 51 (32 per cent), were of native origin. Of the total number, 66 (41 per cent) were employed with the territorial government, the remainder with private industry. Table 13 lists, by geographic location and ethnic origin, those currently registered as apprentices. Although information was available on the numbers of apprentices employed within the N. W. T. Government, none was available on those apprentices who were either working for private industry or were out of work. Certain assumptions may be made. For example, those apprentices in Pine Point are probably with Pine Point Mines Ltd.; those in Yellowknife and Hay River,

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<sup>1/</sup> See Appendices 1, 2, 3.

Table 11  
ENROLMENT IN N.W.T. VOCATIONAL TRAINING PROGRAMS BY ADMINISTRATIVE REGION ETHNIC ORIGIN  
September 1971 - June 1972

| Program             | Fort Smith Region |     |       |     | Still 1/ |    |          |    | Inuvik Region |    |       |   | Keewatin Region |  |          |  |       |  |
|---------------------|-------------------|-----|-------|-----|----------|----|----------|----|---------------|----|-------|---|-----------------|--|----------|--|-------|--|
|                     | Indian            |     | Other |     | Total    |    | Training |    | Indian        |    | Other |   | Total           |  | Training |  | Still |  |
|                     |                   |     |       |     |          |    |          |    |               |    |       |   |                 |  |          |  |       |  |
| Apprenticeship      | 17                | 8   | 139   | 164 | 132      | 2  | 6        | 11 | 19            | 13 | 10    |   | 10              |  | 10       |  | 9     |  |
| Training-on-the-Job | 8                 | 4   | 10    | 22  | 5        | 10 | 6        | 8  | 24            | 1  | 33    |   | 33              |  | 33       |  | 2     |  |
| Vocational Outside  | 29                | 35  | 98    | 162 | 67       | 11 | 8        | 10 | 29            | 10 | 27    | 1 | 28              |  | 28       |  | 22    |  |
| N.W.T.              |                   |     |       |     |          |    |          |    |               |    |       |   |                 |  |          |  |       |  |
| Adult Vocational    | 94                | 83  | 66    | 243 | 79       |    |          |    |               |    |       |   |                 |  |          |  |       |  |
| Training Center     |                   |     |       |     |          |    |          |    |               |    |       |   |                 |  |          |  |       |  |
| Fort Smith 2/       |                   |     |       |     |          |    |          |    |               |    |       |   |                 |  |          |  |       |  |
| Total               | 148               | 130 | 313   | 591 | 283      | 23 | 20       | 29 | 72            | 24 | 70    | 1 | 71              |  | 71       |  | 33    |  |

1/ Those still training as of June 1972. Remainder may have either completed training or dropped out.

2/ See Table 12.

Source: Continuing and Special Education Division, Department of Education, N.W.T. Government, Yellowknife.

Table 11 (cont'd.)

| <u>Program</u>                    | <u>Baffin Region</u> |               |              | <u>Still 1/<br/>Training</u> | <u>Total N.W.T.</u> |               |              | <u>Still<br/>Training</u> |              |
|-----------------------------------|----------------------|---------------|--------------|------------------------------|---------------------|---------------|--------------|---------------------------|--------------|
|                                   | <u>Indian</u>        | <u>Eskimo</u> | <u>Other</u> |                              | <u>Indian</u>       | <u>Eskimo</u> | <u>Other</u> |                           | <u>Total</u> |
| Apprentice                        |                      | 7             | 1            | 8                            | 19                  | 31            | 151          | 201                       | 160          |
| Training-on-the-job               |                      | 4             |              | 4                            | 18                  | 47            | 18           | 83                        | 10           |
| Vocational Outside                |                      | 25            |              | 25                           | 40                  | 95            | 109          | 244                       | 118          |
| N.W.T.                            |                      |               |              |                              |                     |               |              |                           |              |
| Adult Vocational                  |                      |               |              |                              | 94                  | 83            | 66           | 243                       | 79           |
| Training Centre,<br>Fort Smith 2/ |                      |               |              |                              |                     |               |              |                           |              |
| Total                             |                      | 36            | 1            | 37                           | 171                 | 256           | 344          | 771                       | 367          |

1/ Those still training as of June 1972. Remainder may have either completed training or dropped out.

2/ See Table 12.

Source: Continuing and Special Education Division, Department of Education, N.W.T. Government, Yellowknife.



Table 12

NUMBERS ENROLLED IN SELECTED COURSES IN ADULT VOCATIONAL  
TRAINING CENTER AT FORT SMITH, BY SETTLEMENT, ETHNIC ORIGIN  
JUNE, 1972

|                                 | <u>Eskimo</u> | <u>Indian</u> | <u>Other</u> | <u>Total</u> |
|---------------------------------|---------------|---------------|--------------|--------------|
| <u>Certified Nursing Ass't.</u> |               |               |              |              |
| Inuvik                          | -             | -             | 2            | 2            |
| Aklavik                         | -             | 1             | -            | 1            |
| Fort Good Hope                  | -             | -             | 1            | 1            |
| Fort Providence                 | -             | -             | 1            | 1            |
| Sub Total Impact Corridor       | -             | 1             | 4            | 5            |
| Fort Smith                      | -             | -             | 3            | 3            |
| Yellowknife                     | -             | 1             | 2            | 3            |
| Sub Total Balance Mackenzie     | -             | 1             | 5            | 6            |
| Igloolik                        | 1             | -             | -            | 1            |
| Cape Dorset                     | 1             | -             | -            | 1            |
| Frobisher Bay                   | 2             | -             | 2            | 4            |
| Sub Total Rest N. W. T.         | 4             | -             | 2            | 6            |
| Dropouts                        |               |               |              | 2            |
| Total N. W. T.                  | 4             | 2             | 11           | 19           |
| <u>Clerk-Typist</u>             |               |               |              |              |
| Fort Good Hope                  | -             | -             | 1            | 1            |
| Fort Wrigley                    | -             | 1             | -            | 1            |
| Norman Wells                    | -             | 1             | -            | 1            |
| Tuktoyaktuk                     | -             | -             | 1            | 1            |
| Fort McPherson                  | -             | 1             | 1            | 2            |
| Sub Total Impact Corridor       | -             | 3             | 3            | 6            |
| Fort Smith                      | -             | 3             | 7            | 10           |
| Yellowknife                     | -             | 1             | -            | 1            |
| Sub Total Balance Mackenzie     | -             | 4             | 7            | 11           |
| Frobisher Bay                   | 1             | -             | -            | 1            |
| Franklin Inlet                  | 1             | -             | -            | 1            |
| Sub Total Rest N. W. T.         | 2             | -             | -            | 2            |
| Total N. W. T.                  | 2             | 7             | 10           | 19           |

Source: Continuing and Special Education Division, N. W. T. Department of Education, Yellowknife.

Table 12 (cont'd.)

|                                 | <u>Eskimo</u> | <u>Indian</u> | <u>Other</u> | <u>Total</u> |
|---------------------------------|---------------|---------------|--------------|--------------|
| <u>Cooks</u>                    |               |               |              |              |
| Fort Simpson                    | -             | 1             | -            | 1            |
| Hay River                       | -             | -             | 1            | 1            |
| Sub Total Impact Corridor       | -             | 1             | 1            | 2            |
| Fort Smith                      | -             | 1             | -            | 1            |
| Sub Total Balance Mackenzie     | -             | 1             | -            | 1            |
| Total N.W.T.                    | -             | 2             | 1            | 3            |
| <u>Heavy Equipment Operator</u> |               |               |              |              |
| Fort Norman                     | -             | -             | 1            | 1            |
| Inuvik                          | -             | 1             | 1            | 2            |
| Fort McPherson                  | -             | -             | 1            | 1            |
| Fort Liard                      | -             | 1             | -            | 1            |
| Sub Total Impact Corridor       | -             | 2             | 3            | 5            |
| Yellowknife                     | -             | 1             | -            | 1            |
| Fort Resolution                 | -             | 1             | -            | 1            |
| Snowdrift                       | -             | -             | 3            | 3            |
| Fort Smith                      | -             | 1             | 1            | 2            |
| Sub Total Balance Mackenzie     | -             | 3             | 4            | 7            |
| Igloolik                        | 1             | -             | -            | 1            |
| Coppermine                      | 1             | -             | -            | 1            |
| Cambridge                       | 1             | -             | -            | 1            |
| Whale Cove                      | 1             | -             | -            | 1            |
| Sub Total Rest of N.W.T.        | 4             | -             | -            | 4            |
| Total N.W.T.                    | 4             | 5             | 7            | 16           |
| <u>Heavy Equipment Mechanic</u> |               |               |              |              |
| Fort Simpson                    | -             | -             | 1            | 1            |
| Fort Franklin                   | -             | -             | 1            | 1            |
| Inuvik                          | 1             | -             | -            | 1            |
| Fort Providence                 | -             | -             | 1            | 1            |
| Fort Norman                     | -             | 1             | -            | 1            |

Table 12 (cont'd.)

|                                 | <u>Eskimo</u> | <u>Indian</u> | <u>Other</u> | <u>Total</u> |
|---------------------------------|---------------|---------------|--------------|--------------|
| Sub Total Impact Corridor       | 1             | 1             | 3            | 5            |
| Rae                             | -             | 1             | -            | 1            |
| Sub Total Balance Mackenzie     | -             | 1             | -            | 1            |
| Igloolik                        | 1             | -             | -            | 1            |
| Whale Cove                      | 1             | -             | -            | 1            |
| Sub Total Rest N.W.T.           | 2             | -             | -            | 2            |
| Dropout                         |               |               |              | 5            |
| Total N.W.T.                    | 3             | 2             | 3            | 13           |
| <u>Pre-Employment Carpenter</u> |               |               |              |              |
| Arctic Red River                | -             | 1             | -            | 1            |
| Fort Wrigley                    | -             | 1             | -            | 1            |
| Hay River                       | -             | 1             | -            | 1            |
| Inuvik                          | -             | -             | 1            | 1            |
| Sub Total Impact Corridor       | -             | 3             | 1            | 4            |
| Fort Smith                      | -             | 1             | 1            | 2            |
| Sub Total Balance Mackenzie     | -             | 1             | 1            | 2            |
| Cambridge                       | 1             | -             | -            | 1            |
| Sub Total Rest of N.W.T.        | 1             | -             | -            | 1            |
| Total N.W.T.                    | 1             | 4             | 2            | 7            |
| <u>Pre-Employment Welding</u>   |               |               |              |              |
| Fort Providence                 | -             | 3             | -            | 3            |
| Fort McPherson                  | -             | 1             | 1            | 2            |
| Inuvik                          | -             | -             | 2            | 2            |
| Fort Simpson                    | -             | -             | 2            | 2            |
| Aklavik                         | -             | 1             | -            | 1            |
| Hay River                       | -             | 1             | -            | 1            |
| Sub Total Impact Corridor       | -             | 6             | 5            | 11           |

Table 12 (cont'd.)

|                             | <u>Eskimo</u> | <u>Indian</u> | <u>Other</u> | <u>Total</u> |
|-----------------------------|---------------|---------------|--------------|--------------|
| Yellowknife                 | -             | -             | 2            | 2            |
| Fort Smith                  | -             | -             | 2            | 2            |
| Sub Total Balance Mackenzie | -             | -             | 4            | 4            |
| Total N.W.T.                | -             | 6             | 9            | 15           |
| <u>Telecommunications</u>   |               |               |              |              |
| Inuvik                      | -             | -             | 1            | 1            |
| Fort Providence             | -             | 1             | -            | 1            |
| Fort Simpson                | -             | 1             | -            | 1            |
| Fort McPherson              | -             | 2             | 2            | 4            |
| Hay River                   | -             | -             | 1            | 1            |
| Sub Total Impact Corridor   | -             | 4             | 4            | 8            |
| Fort Smith                  | -             | -             | 3            | 3            |
| Yellowknife                 | -             | -             | 5            | 5            |
| Sub Total Balance Mackenzie | -             | -             | 8            | 8            |
| Frobisher Bay               | -             | -             | 2            | 2            |
| Sub Total Rest of N.W.T.    | -             | -             | 2            | 2            |
| Total N.W.T.                | -             | 4             | 14           | 18           |

with private concerns; those at Echo Bay and Tungsten with the mining companies. The total number does, however, represent a small pool of skilled tradesmen who could conceivably obtain work on the pipeline. The actual level of employment would depend on what stage of apprenticeship had been reached and also on the level of jobs available in terms of the amount of direct pipeline experience which might be required as opposed to general relevant experience applicable to pipeline work. The question remains, however, as to how many of these individuals would go in search of work on the pipeline - a question pertaining to all of those territorial residents who are fully employed.

#### Other Types of Training Situation

The vocational education program accounts for a great deal of the total training of territorial residents, through the regular school system, the vocational schools, apprenticeships and employment placement with on-the-job training. It can be assumed that numbers of territorial residents not accounted for through this program are also receiving valuable training through on-the-job training in work situations. Since there are no adequate statistics available by which the numbers may be determined, it must be assumed that those persons who have employment are receiving some form of on-the-job training, whether formally structured or not. Information is difficult to obtain, particularly concerning employment by the private sector, and more particularly within those entities of the private sector who carry out largely seasonal work in the North, e.g., oil and mineral exploration operations. In some instances, such organizations hire local residents with the assistance of either the territorial or federal government. In some instances, they may hire directly on their own, particularly following the first year of operation during which they may have developed a good work team, or number of teams of local residents in any particular area. Because of this it can be assumed that more territorial residents than can now be accounted for through such media as out-of-date manpower surveys, various employment surveys, training course statistics, will be obtaining work experience quite relevant to pipeline work, and that many of these people will seek and obtain pipeline work on the basis of their past work with such companies. Until an intensive employment survey is done, however, it will be impossible to estimate with any degree of accuracy how many territorial residents could take work on the pipeline on the basis of their past work experience, and how many will require training.

A more formalized training situation of direct relevance to pipeline work is that undertaken by the Alberta Gas Trunk Line Company (A.G.T.L.) for the training of territorial residents. Some 25 candidates from the N.W.T. and Yukon were selected by the company on the basis of advertising and screening carried out by the territorial governments. Final selection was made of 23 candidates, three from the Yukon, 20 from the N.W.T., 90 per cent of whom were of native origin.



These candidates went out to company training facilities at Rainbow Lake and Rocky Mountain House, and for six months were trained with salary. At the end of the six months, those who were willing and suitable candidates became full-time employees of the company, able to choose the trade they preferred and to carry on with combined training-work situation. As of mid-summer 1972, the program was in its second successful year. The attrition rate has been extremely low and overwhelming majority of the original candidates are still employed by the company. Obviously these people will be qualified for pipeline work; if successful as employees generally, they will also have continuing work with the company if they so choose throughout and after pipeline construction.

The number of persons involved is small, but the intent behind the A.G.T.L. program is the important factor - the willingness of a company to attempt such a program. Success could inspire other companies to try similar ventures. More importantly this particular program could give rise to a joint government-industry program aimed at providing training and employment to territorial residents on a more organized basis than is currently the case.

It is difficult at the present time to know how many persons to train for what work, and when to begin the training. There is little concrete knowledge of the numbers of jobs likely to be available in pipeline construction, and little specific information exists on the nature of many of the jobs, whether skilled, semi-skilled or unskilled. This creates planning and budgetary problems. Because of the high cost of the training programs alone, priorities will have to be set and resources adequately allocated so that training will not be curtailed for lack of funds.

Table 13

APPRENTICES REGISTERED IN N.W.T. BY SETTLEMENT  
AND ETHNIC ORIGIN AS OF JUNE, 1972

| <u>Settlement</u>                       | <u>Total<br/>Number</u> | Number who<br>are |               | <u>No. Employed<br/>by N.W.T.</u> |
|---|-------------------------|-------------------|---------------|-----------------------------------|
|   |                         | <u>Indian</u>     | <u>Eskimo</u> |                                   |
| Fort Smith                              | 27                      | 12                | -             | 24                                |
| Pine Point                              | 21                      | -                 | -             | -                                 |
| Yellowknife                             | 51                      | 3                 | -             | 9                                 |
| Edzo                                    | 1                       | 1                 | -             | -                                 |
| Rae                                     | 1                       | 1                 | -             | -                                 |
| Enterprise                              | 3                       | -                 | -             | 3                                 |
| Tungsten                                | 1                       | -                 | -             | -                                 |
| Echo Bay                                | 1                       | -                 | -             | -                                 |
| Spence Bay                              | 1                       | -                 | 1             | -                                 |
| Cambridge Bay                           | <u>6</u>                | <u>-</u>          | <u>6</u>      | <u>6</u>                          |
| Sub Total Rest of<br>Mackenzie District | 113                     | 17                | 7             | 42                                |
| Hay River                               | 15                      | 2                 | -             | 2                                 |
| Fort Simpson                            | 4                       | 3                 | -             | 3                                 |
| Fort Norman                             | 1                       | -                 | -             | -                                 |
| Fort Good Hope                          | 1                       | 1                 | -             | 1                                 |
| Fort McPherson                          | 1                       | 1                 | -             | -                                 |
| Inuvik                                  | <u>10</u>               | <u>-</u>          | <u>6</u>      | <u>7</u>                          |
| Sub Total Impact<br>Corridor            | 32                      | 7                 | 6             | 13                                |
| Frobisher Bay                           | 7                       | -                 | 6             | 3                                 |
| Igloolik                                | 2                       | -                 | 2             | 2                                 |
| Churchill                               | 2                       | -                 | 2             | 2                                 |
| Baker Lake                              | 2                       | -                 | 2             | 2                                 |
| Rankin Inlet                            | <u>2</u>                | <u>-</u>          | <u>2</u>      | <u>2</u>                          |
| Sub Total Rest of N.W.T.                | 15                      | -                 | 14            | 11                                |
| Total N.W.T.                            | 160                     | 24                | 27            | 66                                |

Source: Continuing and Special Education Division, N.W.T. Department of Education, Yellowknife.

## CHAPTER 4

EDUCATION AND TRAINING COSTSTotal Basic Costs

Education costs are extremely high in the North. The basic cost of building, operation and maintenance, payment of teachers' salaries for the total education program, including the vocational and adult programs for the N.W.T., have run into millions of dollars. Table 14 contains expenditures for both the federal and territorial programs in the N.W.T. for the period 1956-57 through 1966-67. In 1966-67, the federal government alone spent nearly \$13,000,000; together the two levels of government spent over \$15,000,000. On an estimated total enrolment, including vocational trainees, of 7,400, that total expenditure figure represented a per capita expenditure of over \$2,000. The particular 10-year period represented in Table 14 may be considered as a period of rapid expansion and development of the basic school system and total education program. It was a period during which many new schools were built and others expanded in size, and during which the vocational and adult education programs were considerably expanded.

While some decline in expenditures might be presumed since that time, this in fact has not happened. Programs have expanded to meet the growing population and rising enrolments. The total operation and maintenance expenditure on education by the N.W.T. Government in the fiscal year 1969-70 alone was in excess of \$7,000,000. This does not include a capital expenditures. Furthermore, it does not represent the total figure spent on education and training of N.W.T. residents since it does not include money spent by the federal government through the Departments of Manpower and Immigration, and Indian Affairs and Northern Development.

Vocational Training Costs

An indication of costs associated with vocational training may be obtained from the following table:

Table 14

EDUCATION EXPENDITURES IN N.W.T., 1956/57 - 1966/67

| Fiscal<br>Year | Expenditures on Education Programs<br>By Federal Government |             |             | Expenditures on Education Programs<br>By Northwest Territories Government |            |            |
|----------------|---|-------------|-------------|---|------------|------------|
|                | Operation and<br>Maintenance                                | Capital     | Total       | Operation and<br>Maintenance  | Capital    | Total      |
| 1956-57        | \$1,173,983   | \$1,751,239 | \$2,925,222 | \$ 148,817  | \$ 222,130 | \$ 370,947 |
| 1957-58        | 1,994,999   | 5,036,987   | 7,031,986   | 316,471   | 502,571    | 819,042    |
| 1958-59        | 2,424,120   | 5,049,486   | 7,473,606   | 449,640   | 721,482    | 1,171,122  |
| 1959-60        | 3,793,361   | 3,910,314   | 7,703,675   | 649,031   | 87,925     | 736,956    |
| 1960-61        | 4,696,725   | 2,240,514   | 6,937,239   | 768,513   | 122,968    | 891,481    |
| 1961-62        | 5,393,140   | 1,601,884   | 6,995,024   | 985,712   | 267,359    | 1,253,071  |
| 1962-63        | 5,639,133   | 2,142,614   | 7,781,747   | 1,391,058   | 369,068    | 1,760,126  |
| 1963-64        | 6,085,744   | 1,152,528   | 7,238,272   | 1,488,895   | 59,365     | 1,548,260  |
| 1964-65        | 7,010,912   | 921,175     | 7,932,087   | 1,686,727   | 193,638    | 1,880,365  |
| 1965-66        | 7,982,144   | 2,243,441   | 10,225,585  | 1,845,746   | 943,151    | 2,788,897  |
| 1966-67        | 8,613,000   | 3,887,000   | 12,500,000  | 1,867,349   | 1,082,869  | 2,950,218  |

Sources: Records of Education Branch, Department of Indian Affairs and Northern Development.  
 Inter-departmental Committee on Federal-Territorial Financial Relations - Report on the  
 Northwest Territories, 1957, 1962.  
1961-67 - Annual Reports, Government of the Northwest Territories.

Table 15

COSTS ASSOCIATED WITH SELECTED VOCATIONAL TRAINING  
COURSES GIVEN AT THE FORT SMITH N.W.T. ADULT VOCATIONAL  
CENTER FOR THE FISCAL YEAR 1971-72

| <u>Course</u>               | <u>Total Cost</u> | <u>1/</u><br><u>No. of</u><br><u>Students</u> | <u>Average Cost</u> |
|-----------------------------|-------------------|---|---------------------|
| Certified Nursing Assistant | \$27,997          | 19  | \$1,474.00          |
| Clerk-Typist                | 13,881            | 19  | 731.00              |
| Cooking                     | 1,368             | 3   | 456.00              |
| Heavy Equipment Operator    | 38,212            | 16  | 2,388.00            |
| Heavy Equipment Mechanic    | 15,906            | 14  | 1,136.00            |
| Pre-Employment Carpentry    | 27,739            | 7   | 3,963.00            |
| Pre-Employment Welding      | 24,833            | 15  | 1,656.00            |
| Telecommunications          | 32,644            | 18  | 1,814.00            |
| TOTAL                       | \$182,580         | 111   | \$1,645.00          |

Source: Continuing and Special Education Division, N.W.T. Department of Education, Yellowknife.

In addition to the cost of purchasing space in Department of Manpower and Immigration courses for each candidate, costs shown for the courses in table 15 comprise the following for each candidate: 2/

Travel - \$250.00 per person (average)

Training allowance, based on following rates:

|  |                  |
|--|------------------|
| Single persons                         | \$47.00 per week |
| Married persons - 1 dependent          | 62.00 per week   |
| Married persons - 2 dependents         | 72.00 per week   |
| Married persons - 3 dependents         | 82.00 per week   |
| Married persons - 4 or more dependents | 88.00 per week   |

For married persons away from their homes on courses the allowance includes an additional cost of \$30.00 per week for maintenance of dependents at home.

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1/ Includes costs of travel of students to and from the course and cost of purchasing space in each program from the Department of Manpower and Immigration.

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2/ Canada Manpower rates.



The courses shown in Table 15 are those for which the N.W.T. Government made recoveries from Canada Manpower (Department of Manpower and Immigration). The total recoveries for the fiscal year 1971-72 totalled \$349,000 and included in addition to the previously listed courses \$145,400 for Basic Training for Skill Development (B.T.S.D) courses \$4,000 for guide training, \$5,800 for introductory business administration, \$1,300 for food services/handling, \$1,500 for mineral identification training, \$500 for rod and chain surveying training.

The total figure represents only a portion of the total outlay on vocational training of N.W.T. residents. One of the largest expenditures in the vocational program is the apprenticeship program. For 1971-72, the apprenticeship program cost a total of \$351,000. For the 155 active apprentices, i.e., those actively involved to the extent of continuing their theory courses, the average cost was \$2,264.00. Just over \$12,000 dollars of the total is made up of costs of travel of the apprentices to their theory courses, and of the cost of the theory training. The total expenditure figure does, however, include the salaries of those apprentices who are employees of the N.W.T. Government, at an average salary of \$6,000.00.

In short, training for pipeline work or any form of employment is extremely costly. Whether projected on constant dollar figures or according to an inflation factor, extensive training programs will be very expensive. 1/ To meet the anticipated labour demands of the pipeline and of related activities, and of the communities 2/ during the pipeline construction period large numbers of workers will be required, many of whom will need extensive training and others who will need only some training. Obviously, enormous financial outlays will be required to meet the basic costs of provision of facilities and equipment for training in various skills and trades, as well as costs of teaching and supervisory staff for those training programs conducted within the N.W.T. Additional costs will arise for the out-of-N.W.T. portion of the total training budget for those candidates sent to accredited institutions or to special courses such as those run by the Department of Defence, outside the N.W.T.

#### Possible Methods of Training

There are a number of courses which would provide training for N.W.T. residents for pipeline work. The facilities within the N.W.T. could be expanded, e.g., the vocational centers such as the Fort Smith training center. Special training camps designed to provide training in the particular pipeline occupations could be established. 3/ These could be concentrated in key areas, such as the Impact Centers of Fort Simpson, Norman Wells and Inuvik, possibly being quite large, or smaller camps could be established throughout the MacKenzie District, with some also being placed in strategic parts of the Central and Eastern Arctic. Arrangements could be made with government bodies outside the N.W.T., e.g. federal government or provincial government institutions or programs. Possibly arrangements could be made with the actual industry for establishment of training programs and facilities within or outside the N.W.T.

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1/ See Volume 7.

2/ See Volume 4.

3/ See Appendix 4 for discussion of planning a training camp at Norman Wells, below, pp. 3-66 - 3-70.

Some combination of the foregoing possible courses of action with respect to training will most likely develop. The ideal approach would be to allow trainees to train under circumstances and conditions most closely approaching those likely to be met in actual pipeline work, e.g., rotation patterns, camp living. While the initial cost might be high, particularly of any program calling for rotation of the candidates between the training camp and their home, for example, such an approach might pay dividends later in terms of travel costs for replacement workers. That is, potential pipeline workers, training under conditions closely simulating those likely to be encountered in actual pipeline work, may receive less shock on the job than if trained in their home communities or at a vocational center. Although, the risk is that many trainees will not like the work, it would be more satisfactory to find this out during training rather than after commitments have been made.

The development of suitable training programs will be essential. The effects will be felt not only in connection with pipeline construction, but also in any other development projects which might occur during or after completion of the pipeline. If pipeline building becomes a continuous process, that is, if the oil and gas potential of the N.W.T. is proven to the extent that additional pipelines are built or the existing one expanded, the training undergone for the first experience, together with the actual work experience gained by workers on the initial pipeline, if successful, should result in the development of an experienced pipeline work force of territorial residents capable and ready to continue the work on other pipelines in other places within the North, and possibly elsewhere. By the same token, there should be dividends for any workers who have taken the training, whether or not they remain in pipeline work, since they would then be adequately prepared for work within their home areas. Thus, it is not only the training which is of importance, but also the experiences undergone while employed with the pipeline workforce which are important to the future development of the territorial work force in general and to the native component in particular.



## Chapter 5

Mobilization of the Territorial  
Work Force for Pipeline WorkTrial and Error

Construction of the DEWLine during the 1950's marked the first concentrated efforts on the part of the federal government to train native northern residents for specific employment. Following the major period of DEWLine construction, the vocational training program and its attendant employment placement function continued to expand, but no set or clearly defined policies for employment of native northerners developed for some time.

The lack of a specific employment policy, scarcity of funds, and shortage of staff hindered native employment placement programs for many years. One of the most serious handicaps was the lack of information on the population and labour force. Many opportunities for the training and placement of native residents were lost through government's inability to quickly mobilize potential workers. Many native residents who had had training suitable for placement became difficult to locate after they had completed training, largely due to the lack of some sort of information system designed to keep track of people. Officials might work hard to convince a potential employer to hire Eskimos or Indians, and then have difficulties in locating potential employees. Furthermore, because of the lack of a sound information system, there was seldom any reliable information on candidates. This often resulted in the selection of unsuitable persons for training or employment and made the selection process a trial and error one.

In many instances, where native workers were placed on the job, particularly in the North, difficulties were experienced in retaining them because there were no counselling services. Counselling and advisory services existed for those northern indigenes who came to the provinces for training courses; for many years, such services were poorly developed for those who came south for jobs, almost non-existent for those employed in the North.

Employment programs for native northern residents were rendered undeveloped and ineffective because of undefined objectives with respect to overall northern development policies. For many years, for example, no connection existed between vocational training and employment placement programs and programs for non-renewable resource exploration and development. Responsibility for all employment placement rested within the education program and was tied to the vocational education program. There was, however, often lack of communication between the development program authorities and those responsible for employment training and placement. Furthermore, the employment training and placement program suffered from lack of clear definition of objectives with respect to the types of employment - whether emphasis should be placed on long-term, short-term, skilled, unskilled, and semi-skilled employment.



Part of the overall problem can also be attributed to the fact that efforts to increase northern employment, particularly of native residents, had to be pursued carefully in order to avoid conflicts with labour code specifications concerning discrimination on the basis of race, colour or creed. All-out drives to increase the numbers of native workers could be construed as a form of reverse discrimination. The perennial problem of qualifications of the native residents for government jobs or jobs in private companies existed then as it does now, coupled with the persistent beliefs of potential employers that Indian or Eskimo workers were unreliable, could not cope with work conditions familiar to southern Canadians, preferred to hunt and trap rather than work, could not learn to do skilled work. These factors coupled with the lack of definition of clear-cut policies with respect to employment of northern native residents had one inevitable result - the majority of the northern native working age population was able to obtain only short-term employment, e.g., DEWLine construction; summer construction projects in communities; road building projects; fire-fighting. The largest part of the native work force having full-time employment, were those employed in unskilled or semi-skilled jobs, primarily with the government.

In the late 1960's, the vocational training program had expanded considerably and the employment placement aspect grew in importance. Not until 1969 however, was there any real co-operation between these programs and departmental development programs, at which time the Department of Indian Affairs and Northern Development established its employment liaison program. This program was intended to concentrate on the employment of northern residents in the mineral and oil industries, and employers were to be encouraged to provide employment opportunities; the federal government and the territorial government would then co-operate in finding candidates and assuring suitable training. Contracts were to be negotiated between companies and the governments concerning the employment of and on-the-job training opportunities for northern residents. To date, agreements have been negotiated between the governments and two major mining development projects. The principles behind the agreements and the motives of the involved parties have been of the highest order. The actual agreements and the procedures used for their preparation and the recruitment of the employees have been under study in order that improvements might be made in some areas which would increase their effectiveness.

### Conflicts

The employment liaison program has broken new ground in that one of its primary objectives, to inform industry of the availability of local resident labour in the North and to encourage use of that labour, has borne some fruit in recent years, particularly in the oil exploration field. However, this particular program introduced yet one more authority in the crowded field of northern resident employment placement.



In 1967, the N.W.T. Government headquarters was established in Yellowknife and began taking up the responsibilities transferred to it from the federal government in the fields of education, social welfare, essentially all programs except some of those concerned with resources. In the same year, the federal Department of Manpower and Immigration extended its operations to the North for the first time, opening an office in Hay River. By April 1, 1970, the territorial government had assumed all its present responsibilities throughout the N.W.T., the Department of Manpower and Immigration was expanding its N.W.T. operations, and the Department of Indian Affairs and Northern Development had initiated its employment liaison program. This introduced three different authorities, all concerned with one particular objective: the employment of northern residents.

Introduction of Canada Manpower programs to the North has been beneficial in that it has given the territorial governments access to training programs not previously available to northern residents, either due to lack of funds, to lack of course allocations, for territorial residents or to lack of adequate qualifications on the part of the territorial residents. In terms of training, the programs of the territorial governments and the Department of Manpower have worked together reasonably effectively; the Department of Indian Affairs has not been actively concerned with the actual vocational programs in the territories. With respect to recruitment and placement of northern residents in jobs, certain problems have arisen, largely due to lack of communication, and partly because of apparent conflicts of interest between the three agencies.

During summer, 1972, actions were taken to clear up certain areas of conflict. The N.W.T. Government removed the primary responsibility for employment placement from the vocational education program and created a specific bureau to handle employment matters within the Department of Local Government. The federal Department of Manpower and Immigration extended its operations still further within the N.W.T. It also assumed primary responsibility for any federal activities in the field of employment placement in connection with such major projects as the construction of the Mackenzie Highway. Questions which still remain to be answered, however, are: how is recruitment of northern residents to be handled for the construction of the pipeline; what agency, or agencies, will assume not only the primary responsibility for recruitment, training and counselling arrangements for northern residents, but also carry out the actual work on the ground.

#### Recruitment for Pipeline Work

One continuing program with employment placement of native residents, particularly in jobs away from their home communities, has been to keep workers on the job. Potential workers often have not had a clear picture of what the jobs entailed, what conditions prevailed, how far away from home the job might be, or how long the job would last.

Another problem of employment placement has originated through lack of information about work prospects, i.e., the posting of notices or the organization of recruitment so as to inform people of available work. This situation has applied primarily in cases where the work was located some distance away from home.

Word concerning work to be available right within communities usually travels quickly.

The 1972 federal government guidelines for pipeline programs set forth quite clearly the conditions pertaining to employment of northern residents, specifically native northern residents, in pipeline work.<sup>1/</sup> One of the key articles of recent guidelines pertaining to social aspects is worded as follows:

Priority placement in jobs shall be accorded native people of the territories in keeping with the tenor of Article 5 of the International Labour Organization Convention 111, 1958, ratified by Canada, and the government's intent to increase employment opportunities for members of disadvantaged minority groups. During the consultation between government, unions and employers as outlined in the Convention, ways and means will be found to ensure access for these employees into the appropriate union locals and hiring halls where there is a requirement. In addition, in accordance with the principle of employment of local workers which is accepted by organized labour, the Applicant will employ labour from the locality where work is being executed to the extent it is available. The Applicant shall comply with the above Convention and employment principles, and co-operate with government's effort to operate an effective recruitment, placement and counselling service.<sup>2/</sup>

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<sup>1/</sup> Expanded Guidelines for Northern Pipelines, As tabled in the House of Commons, June 28, 1972, by the Honourable Jean Chrétien, Minister of Indian Affairs and Northern Development, No. 72-3, Ottawa.

<sup>2/</sup> Ibid., pp. 26, 27, (underlining added).

The initial success, and indeed any success, of efforts to involve territorial native residents to the maximum extent possible in pipeline work, and in ways which will be of benefit to them, depends on the factor of access - to hiring halls, to the jobs. That is, active information programs concerning the availability of pipeline work will have to be developed and carried out. The guidelines do not spell out who has the ultimate authority. Nevertheless, in view of the responsibilities of the federal and territorial governments with respect to northern native residents, it is clear that government must be actively involved in the process of mobilization and recruitment of any pipeline work force of territorial native residents.

Recruitment of local resident labour for work on the pipeline should be reasonably successful if properly managed. Since the discovery of the Prudhoe Bay oil fields in 1969, rumours have been circulating in the North concerning the possible construction of a pipeline. Rumour has been strengthened over the past year by the numbers of government and private industry information tours and other activities in the Mackenzie Valley. It is probably well known generally that there will be many jobs and that the wages will be high. However, as with any topic or subject of interest that does not generate immediate action, general interest will diminish. Furthermore, a program of more immediate interest (and of comprehension to the local native population) is that of construction of the Mackenzie Highway, which will precede the pipeline by possibly quite some length of time.

The recruitment of local labour for the Mackenzie Highway can have considerable implications for the pipeline construction program, in the sense that if general mobilization and recruitment of workers for the highway construction are handled well, there will be lasting benefits for the pipeline. Recruitment must be carefully carried out with every attention to detail. It should be under a central authority; this authority should be clearly vested in an agency which can be readily identified by the local population.

#### Information Requirements

At the time of recruitment, some clear indication must be given to potential workers as to the nature of the work, the working conditions - e.g., pay, benefits, length of time on the job, travel and accommodation arrangements. It should be the responsibility of the central or co-ordinating government authority to ensure that this information is made known to potential employees. This should, in theory, reduce the numbers of residents who leave the work because they have not understood what is involved.



The 1972 pipeline guidelines<sup>1/</sup> call for the working out between the government, applicants (for permit to build the pipeline) and the local people of arrangements and agreements concerning pipeline employment opportunities. Once these arrangements have been made, preferably well in advance of actual active recruitment, it should then become the responsibility of the authority(ies) handling recruitment to ensure that the information is made available to potential employees.

#### Methods of Recruitement

The actual method of recruitment will determine the overall success of territorial native involvement in pipeline work. Methods of recruitment for various projects in the past have varied according to a number of factors. Within communities, it might be done directly by the employer or by the local government employment selection and placement officer, if there was one, or by the resident administrator. Since the initiation of activities of the Department of Manpower and Immigration in the North, that department has played a role according to its procedures, usually in conjunction or co-operation with the N.W.T. Government. The N.W.T. Government has been active both in the field and through regional and headquarters offices in employment placement. The Department of Indian Affairs and Northern Development Employment Liaison Officers make contact with potential employers and obtain candidates through either Canada Manpower or the N.W.T. Government.

Studies have been made of the concept of establishing local labour pools within the communities. The most recent proposal<sup>2/</sup> along these lines concerns the establishment of community councils as local employment agencies. The community council would function, or engage a person or group to function, as a local employment broker. Employers would advertise their work force needs; the local employment agency would undertake to provide the workers. While having considerable merit with respect to small local projects, careful study would be required to determine if this method would be effective for large-scale projects, particularly those to be carried out far from the home community.

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<sup>1/</sup> Ibid.

<sup>2/</sup> Gemini North, 1972.

In order to be effective and beneficial to northern residents, any recruitment program must be carefully planned and co-ordinated. It must have sufficient funding to ensure that information reaches the people.

In addition to providing adequate funds for information and actual recruitment, sufficient funds must be available in the budgets of agencies designated to handle pipeline recruitment to cover the travel costs of unsuitable or unhappy workers returning to their homes. The responsibility for such costs will have to be determined well in advance of actual recruitment.

The larger the numbers of territorial residents recruited from outside 1) the immediate corridor, 2) outside the Mackenzie District, the higher will be the costs of repatriating unsuccessful candidates.

#### Selection Process

An inadequate selection process has often led to poor results in training programs and employment situations. Two primary factors to consider must be the candidate's health and general qualifications. Any additional information can only improve the chance of successful selection, e.g. information on general suitability for the type of work, emotional balance, and, in the case of native candidates, ability to function in a language other than their own.

Health is extremely important, especially for heavy pipeline work. In terms of cost and disruption to the individuals through travelling, it is most important to ensure that potential workers, before leaving their homes, are healthy and able to stand the work.

The requirement for large numbers of workers may lead to a tendency on the part of those responsible for selection to accept territorial residents who lack certain qualifications. This could arise on the basis of the theory that since there will be so many jobs, a man who cannot handle one would be able to do another type of work. Within certain limitations, this may be so. However, this approach would demand that such candidates be screened to ensure their ability to adapt well to changing situations. This implies considerable knowledge of the residents of his community on the part of the local administrator or selection officer - something which is not always the case.



Ideally, selection should be based on complete knowledge of 1) the job, 2) the candidate. A complete roster should be available of able-bodied workers, including training and employment histories, to allow fairly rapid selection of those persons who could be quickly and easily slotted into particular jobs on the pipeline.

There are two methods of ensuring extensive northern native participation in pipeline work: 1) insistence on blanket quotas; 2) insistence on maximum possible (or feasible) involvement through such principles of e.g., local hiring, first refusal, assured placement of qualified candidates. The former would lead to high initial native participation, but a rather disappointing - and harmful - situation over the course of the project. Blanket quotas would result in mass recruitment of large numbers of totally unsuitable candidates. This could do lasting harm to the objective of increasing the participation of native residents in the labour force. The tendency toward preconceived notions on the part of industry that native workers are inadequate would be strengthened. Many native workers could become quite disillusioned. The latter course of action, i.e., maximum possible, would be much more likely to lead to the development of a stable, qualified native work force. The initial statistics on native participation would not be as impressive, from the point of view of public relations or advertising. Properly managed, however, this approach could lead to steady growth of native participation; it could be more impressive statistically, particularly if high turn-over rates were avoided and if those employed were advancing on the basis of steadiness, work experience and skill development.

The effectiveness of this latter approach would depend on the development of means of keeping track of members of the potential labour force (those undergoing training) and the actual labour force - i.e., a roster or inventory. This would be a large undertaking, involving the collating of scattered records on training and employment for persons all over the North. Centralizing the system, beginning at the community levels, would be costly and time-consuming. Sources of such information include the D.I.A.N.D. Manpower Survey Program which obtained information on an individual basis; records kept by the N.W.T. Departments of Education and Local Government (employment service); and the federal Department of Manpower and Immigration. Additional sources might be records kept by local labour pools and those of any development projects which use local labour. Valuable information for any such system could come through records kept on those who work for reasonable lengths of time on

construction of the Mackenzie Highway. At the very least, a carefully maintained community roster would greatly assist the selection of potential candidates, providing some means of ensuring that the most suitable candidates possible are sent to try for employment on the pipeline or any other project.

It will not be possible to completely control selection of workers. Many will go on their own to seek employment directly at the site. However, advance knowledge of the most suitable or qualified potential pipeline workers from among native residents will greatly assist both the program and the people themselves. In terms of economy, the weeding out of undesirable candidates will generate savings on transportation and removal costs.

The costs and benefits of ideal methods for native recruitment, training and employment participation in the construction and operation of the pipeline can be measured. Less tangible, however, are the effects of this participation on those who are already permanently employed.

ESTIMATED TRAINING COSTS ASSUMING  
A TRAINING CAMP AT NORMAN WELLS

| <u>Item</u>        | <u>Cost per Trainee</u>                   | <u>Total Cost For 1,500 Trainees</u> | <u>Total Cost For 2,000 Trainees</u> |
|--------------------|---|--------------------------------------|--------------------------------------|
|                    | (\$)                                      | (\$)                                 | (\$)                                 |
| Board and Room     | 1,575                                     | 2,362,500                            | 3,150,000                            |
| Training Allowance | 984                                       | 1,476,000                            | 1,968,000                            |
| Instruction        | 1,460                                     | 2,190,000                            | 2,920,000                            |
| Camp and Equipment | 618 <sup>1/</sup> - 464 <sup>2/</sup>     | 927,000                              | 927,000                              |
| Travel             | <u>250</u>                                | <u>375,000</u>                       | <u>500,000</u>                       |
| Total              | 4,887 <sup>1/</sup> - 4,733 <sup>2/</sup> | 7,330,500                            | 9,465,000                            |

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<sup>1/</sup> Assumes the total number of trainees at 1,500.

<sup>2/</sup> Assumes the total number of trainees at 2,000.

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# Appendix 1

## TRAINING TAKEN BY N.W.T. RESIDENTS UNDER VOCATIONAL EDUCATION PROGRAM IN FISCAL YEAR 1962-1963 BY ETHNIC ORIGIN

| Type of Training and<br>Category of Training | Mackenzie District |        | Arctic District |        | Combined<br>Total |
|--|--------------------|--------|-----------------|--------|-------------------|
|  | Eskimo             | Indian | Other           | Eskimo |                   |
| 1. <u>Training on-the-Job</u>                |                    |        |                 |        |                   |
| a) Within the N.W.T.                         |                    |        |                 |        |                   |
| Commercial and Clerical                      |                    | 1      | 15              | 3      | 19                |
| Classroom Assistants                         |                    |        |                 | 10     | 10                |
| Auto Mechanic                                |                    |        |                 | 2      | 2                 |
| Laundry Operators                            |                    |        |                 | 2      | 2                 |
| Mine Mill Operators                          | 1                  | 1      | 2               |        | 4                 |
| Plumber                                      |                    |        |                 | 1      | 1                 |
| Power Plant Operators                        | —                  | —      | —               | 7      | 7                 |
| Total  | 1                  | 2      | 17              | 25     | 45                |
| b) Outside the N.W.T.                        |                    |        |                 |        |                   |
| Tailoring                                    |                    |        | 1               |        | 1                 |
| Mechanic                                     | 1                  |        |                 | 1      | 2                 |
| Commercial and Clerical                      | 2                  |        |                 | 4      | 6                 |
| Nurses Aide                                  |                    |        |                 | 1      | 1                 |
| Outboard Motor Repair                        | —                  |        | —               | 11     | 11                |
| Total  | 3                  |        | 1               | 17     | 21                |
| 2. <u>Courses - Sir John Franklin</u>        |                    |        |                 |        |                   |
| Orientation                                  | 3                  | 13     | 11              | 1      | 28                |
| Equipment Operators                          | 1                  | 4      | 2               |        | 7                 |
| Mechanics                                    | 6                  | 10     | 5               | 4      | 25                |
| Building Construction                        | 3                  | 7      | 2               |        | 12                |
| Home Economics                               | 8                  | 17     | 9               | —      | 34                |
| Total  | 21                 | 51     | 29              | 5      | 106               |

Source: Education Branch, Department of Indian Affairs and Northern Development.

## Appendix 1 (cont'd)

TRAINING TAKEN BY N.W.T. RESIDENTS UNDER VOCATIONAL EDUCATION PROGRAM IN FISCAL YEAR 1962-1963  
BY ETHNIC ORIGIN

| Type of Training and<br>Category of Training                | Mackenzie District |        | Arctic District |       | Combined<br>Total |
|---|--------------------|--------|-----------------|-------|-------------------|
|   | Eskimo             | Indian | Eskimo          | Other |                   |
| 3. <u>Courses or Group Training -<br/>Within the N.W.T.</u> |                    |        |                 |       |                   |
| Carpentry   |                    |        | 24              |       | 24                |
| Nurses Aide   |                    |        |                 | 1     | 1                 |
| Junior Forestry   |                    | 12     |                 | 21    | 33                |
| Fire Fighting   |                    | 32     |                 | 8     | 40                |
| Angling - Guiding   |                    | 10     |                 |       | 10                |
| Sewing  | 2                  | 7      |                 | 8     | 17                |
| Fur Garment   | 15                 |        |                 |       | 15                |
| Furniture Repair  |                    | 9      |                 | 3     | 12                |
| Total   | 17                 | 70     | 24              | 41    | 152               |

|  |   |   |   |   |    |
|--|---|---|---|---|----|
| 4. <u>Courses - Outside the N.W.T.</u> |   |   |   |   |    |
| Merchandising Admin.                   |   |   |   | 1 | 1  |
| Electrical Technology                  |   |   |   | 1 | 1  |
| Radio and TV Arts                      |   |   |   | 1 | 1  |
| Commercial Radio                       | 1 |   |   | 4 | 5  |
| Diesel Mechanics                       |   |   |   | 3 | 3  |
| Aircraft Maintenance Technician        |   |   |   | 1 | 1  |
| Lab Technician                         |   |   |   | 1 | 1  |
| Drafting                               |   |   |   | 1 | 1  |
| Welding                                |   |   |   | 1 | 1  |
| Automotive Servicing                   |   |   |   | 1 | 1  |
| Aero-Engineeering                      |   |   |   | 1 | 1  |
| Plumbing                               |   |   | 2 |   | 2  |
| Prevocational                          |   | 2 |   |   | 4  |
| Commercial                             |   | 5 |   | 1 | 14 |
| Hairdressing                           |   |   |   | 1 | 5  |
| Nurses Aide                            | 1 | 2 |   |   | 3  |



# Appendix 1 (cont'd)

3-49

## TRAINING TAKEN BY N.W.T. RESIDENTS UNDER VOCATIONAL EDUCATION PROGRAM IN FISCAL YEAR 1962-1963 BY ETHNIC ORIGIN

| Type of Training and<br>Category of Training | Mackenzie District |        | Arctic District |       | Combined<br>Total |
|--|--------------------|--------|-----------------|-------|-------------------|
|  | Eskimo             | Indian | Eskimo          | Other |                   |

### 4. (cont'd)

|                               |   |   |   |  |    |
|-------------------------------|---|---|---|--|----|
| Furniture and Interior Design |   | 1 |   |  | 1  |
| Recreational Leadership       | 1 |   |   |  | 1  |
| X-Ray Technology              |   | 1 |   |  | 1  |
| Electrical Construction       |   |   | 2 |  | 2  |
| Heavy Equipment Operators     |   |   | 2 |  | 2  |
| Total                         | 3 | 9 | 8 |  | 52 |

### 5. Apprentices - Outside the N.W.T.

|                 |   |  |  |  |   |
|-----------------|---|--|--|--|---|
| Electrical      | 1 |  |  |  | 1 |
| Motor Mechanics | 1 |  |  |  | 1 |
| Total           | 2 |  |  |  | 2 |

### 6. Special Projects

|                       |  |  |    |  |    |
|-----------------------|--|--|----|--|----|
| Power Plant Operators |  |  | 10 |  | 10 |
| Total                 |  |  | 10 |  | 10 |

### 7. University

|                           |   |  |  |  |    |
|---------------------------|---|--|--|--|----|
| Degree Courses-Commercial | 1 |  |  |  | 1  |
| Arts and Science          | 4 |  |  |  | 4  |
| Zoology                   | 1 |  |  |  | 1  |
| Pharmacy                  | 1 |  |  |  | 1  |
| Engineering               | 1 |  |  |  | 1  |
| Education                 | 3 |  |  |  | 3  |
| Science                   | 2 |  |  |  | 2  |
| Nursing                   | 1 |  |  |  | 3  |
| Teacher Training          |   |  |  |  | 2  |
| Total                     | 1 |  |  |  | 1  |
|                           |   |  |  |  | 17 |

## Appendix 1 (cont'd)

TRAINING TAKEN BY N.W.T. RESIDENTS UNDER VOCATIONAL EDUCATION PROGRAM IN FISCAL YEAR 1962-1963  
BY ETHNIC ORIGIN

| Type of Training and<br>Category of Training                                | Mackenzie District |            | Arctic District |          | Combined<br>Total |
|---|--------------------|------------|-----------------|----------|-------------------|
|   | Eskimo             | Indian     | Eskimo          | Other    |                   |
| 8. <u>Correspondence Courses</u>  |                    |            |                 |          |                   |
| Purchasing  |                    | 1          |                 |          | 1                 |
| Refrigeration   |                    | 1          |                 |          | 1                 |
| Basic Radio   |                    | 1          |                 |          | 1                 |
| Real Estate   |                    | 1          |                 |          | 1                 |
| Mathematics   |                    | 1          |                 |          | 1                 |
| Municipal Clerk and Treasury<br>Administration and Management<br>Theory     |                    | 1          |                 |          | 1                 |
| Total   |                    | <u>7</u>   |                 |          | <u>7</u>          |
| Combined Total  | 46                 | 132        | 89              |          | 412               |
| <u>Summary</u>  |                    |            |                 |          |                   |
| 1. Training on-the-Job<br>Within the N.W.T.<br>Courses - Outside the N.W.T. | 1<br>3             | 2          | 25<br>17        |          | 45<br>21          |
| 2. Sir John Franklin School   | 21                 | 51         | 5               |          | 106               |
| 3. Courses or Group Training -<br>Within the N.W.T.                         | 17                 | 70         | 24              |          | 152               |
| 4. Courses - Outside the N.W.T.   | 3                  | 9          | 8               |          | 52                |
| 5. Apprentices - Outside N.W.T.   |                    |            | 10              |          | 2                 |
| 6. Special Projects   |                    |            |                 |          | 10                |
| 7. University   | 1                  |            |                 | 16       | 17                |
| 8. Correspondence Courses   | <u>46</u>          | <u>132</u> | <u>89</u>       | <u>7</u> | <u>7</u>          |
| Combined Total  |                    |            |                 |          | 412               |

## Appendix 2

VOCATIONAL TRAINING COMPLETED BY  
NORTHWEST TERRITORIES RESIDENTS<sup>1/</sup> BY ETHNIC ORIGIN  
FISCAL YEAR APRIL 1, 1968 and MARCH 31, 1969

| <u>Course</u>                                 | <u>Number of Trainees</u>                        |   |  |   |  |          |  |          |
|---|--|---|--|---|--|----------|--|----------|
|   | <u>Eskimo</u>                                    |   | <u>Indian</u>                                    |   | <u>Other</u>                                     |          | <u>Total</u>                                     |          |
|   | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |   | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |   | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |          | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |          |
| <u>Training for Handicapped Persons</u>       |  |   |  |   |  |          |  |          |
| Pupils with Impaired Hearing                  | 6  |   | 5  |   | 1  |          | 12   |          |
| Pupils with Impaired Eyesight                 | 1  |   |  |   |  |          | 1  |          |
| Mentally Retarded Pupils                      | 2  |   |  |   | 3  |          | 5  |          |
| Receiving Special Medical Treatment           | —  | — | —  | — | <u>1</u>   | —        | <u>1</u>   |          |
| Total   | 9  |   | 5  |   | 5  |          | 19   |          |
| <u>Correspondence Courses</u>                 |  |   |  |   |  |          |  |          |
| Surveying and Levelling                       |  |   |  |   | 1  |          | 1  |          |
| Chartered Accountant                          |  |   |  |   | 1  |          | 1  |          |
| Grade 9                                       | 3  |   | 1  |   | 2  |          | 6  |          |
| Basic Electronics                             |  |   |  |   | 1  |          | 1  |          |
| Electrical Engineering                        |  |   |  |   | 1  |          | 1  |          |
| Social Studies                                |  |   |  |   | 1  |          | 1  |          |
| Hospital Administration                       |  |   |  |   | 1  |          | 1  |          |
| Academic (other than Grade 9 above)           |  |   |  |   | 1  |          | 1  |          |
| Cost Accountancy                              |  |   |  |   | 1  |          | 1  |          |
| Public Administration                         | —  | — | —  | — | <u>1</u>   | —        | <u>1</u>   |          |
| Total   | 3  |   | 1  |   | 11   |          | 15   |          |
| <u>Apprenticeship Theory</u><br>(Trades Only) |  |   |  |   |  |          |  |          |
| Automotive Mechanics                          | 1  |   |  |   |  |          | 1  |          |
| H.D. Equipment Mechanics                      |  |   |  |   | 2  |          | 2  |          |
| H.D. Equipment Operator                       | 2  |   |  |   |  |          | 2  |          |
| Electrician                                   | 5  |   | 2  |   | 2  |          | 9  |          |
| Oil Burner Mechanic                           | 1  |   |  |   |  |          | 1  |          |
| Plumbing                                      | 2  |   |  |   |  |          | 2  |          |
| Carpenter                                     | 2  |   |  |   | 1  |          | 3  |          |
| Commercial Cook                               | 1  |   |  |   |  |          | 1  |          |
| Lineman                                       | —  | — | —  | — | —  | <u>1</u> | —  | <u>1</u> |
| Total   | 14   |   | 2  |   | 6  |          | 22   |          |

<sup>1/</sup> Does not include courses which were the complete financial responsibility to the Department of Manpower and Immigration.

<sup>2/</sup> Inside the N.W.T.

<sup>3/</sup> Outside the N.W.T.

Appendix 2 (cont'd)  
 VOCATIONAL TRAINING COMPLETED BY  
 NORTHWEST TERRITORIES RESIDENTS<sup>1/</sup> BY ETHNIC ORIGIN  
FISCAL YEAR APRIL 1, 1968 and MARCH 31, 1969

| <u>Course</u>                     | <u>Number of Trainees</u>                        |     |  |  |  |   |
|-----------------------------------|--|-----|--|--|--|---|
|                                   | <u>Eskimo</u>                                    |     | <u>Indian</u>                                    |  | <u>Other</u>                                     |   |
|                                   | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |     | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |  | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> | <u>Total</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |
| <u>Occupational (In School)</u>   |  |     |  |  |  |   |
| Sir John Franklin School          |  |     |  |  |  |   |
| - Commercial                      |  |     |  |  |  | 66  |
| - Machine Shop, General Mechanics |  |     |  |  |  | 8   |
| - Automotive Mechanics            |  |     |  |  |  | 9   |
| - Other mechanical trades         |  |     |  |  |  | 8   |
| - Carpentry                       |  |     |  |  |  | 6   |
| - Home Economics                  |  |     |  |  |  | 5   |
| - Applied Arts                    |  |     |  |  |  | 11  |
| - General Vocational              |  |     |  |  |  | 10  |
| - Exploratory (Technical)         |  |     |  |  |  | 17  |
| - Exploratory (Commercial)        |  |     |  |  |  | 9   |
| - Pre-employment                  |  |     |  |  |  | 49  |
| Sub-Total                         | 24   |     | 58   |  | 116  | 198   |
| Churchill Vocational Centre       |  |     |  |  |  |   |
| - Pre-employment                  |  | 188 |  |  |  | 188   |
| Hay River Federal School          |  |     |  |  |  |   |
| - Pre-employment                  |  |     |  |  | 14   | 14  |
| Thomas Simpson School             |  |     |  |  |  |   |
| - Pre-employment                  |  |     |  |  | 16   | 16  |
| Joseph Burr Tyrrell School        |  |     |  |  |  |   |
| - Pre-employment                  |  |     | 9  |  | 3  | 12  |
| Samuel Hearne School, Inuvik      |  |     |  |  |  |   |
| - Pre-employment                  | 17   |     | 15   |  | 2  | 34  |
| Totals                            | 229  |     | 82   |  | 151  | 462   |

Appendix 2 (cont'd)

VOCATIONAL TRAINING COMPLETED BY  
NORTHWEST TERRITORIES RESIDENTS<sup>1/</sup> BY ETHNIC ORIGIN  
FISCAL YEAR APRIL 1, 1968 and MARCH 31, 1969

| <u>Course</u>   | <u>Number of Trainees</u> |                         |                        |                         |                        |                         |                        |                         |
|---|---------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
|   | <u>Eskimo</u>             |                         | <u>Indian</u>          |                         | <u>Other</u>           |                         | <u>Total</u>           |                         |
|   | <u>In<sup>2/</sup></u>    | <u>Out<sup>3/</sup></u> | <u>In<sup>2/</sup></u> | <u>Out<sup>3/</sup></u> | <u>In<sup>2/</sup></u> | <u>Out<sup>3/</sup></u> | <u>In<sup>2/</sup></u> | <u>Out<sup>3/</sup></u> |
| <u>Continuing Education</u><br>(Post High School)     |                           |                         |                        |                         |                        |                         |                        |                         |
| Aeronautical Technology                               |                           |                         |                        |                         |                        | 1                       |                        | 1                       |
| Hostess   |                           |                         |                        |                         |                        | 1                       |                        | 1                       |
| Industrial Electrical Technology                      |                           |                         |                        |                         |                        | 1                       |                        | 1                       |
| Commercial Pilot                                      |                           |                         |                        |                         |                        | 2                       |                        | 2                       |
| Mining Technology                                     |                           |                         |                        |                         |                        | 1                       |                        | 1                       |
| Nursing   |                           |                         |                        |                         |                        | 3                       |                        | 3                       |
| Teacher   |                           |                         |                        |                         |                        | 2                       |                        | 2                       |
| Gas Technology  |                           |                         |                        |                         |                        | 1                       |                        | 1                       |
| Photographic Technology                               | —                         | —                       | —                      | —                       | —                      | 1                       | —                      | 1                       |
| Total   |                           |                         |                        |                         |                        | 13                      |                        | 13                      |
| <u>Continuing Education</u><br>(Not Post High School) |                           |                         |                        |                         |                        |                         |                        |                         |
| Arts and Craft Design                                 |                           | 2                       |                        |                         |                        |                         |                        | 2                       |
| Academic Upgrading                                    |                           | 32                      |                        |                         |                        |                         |                        | 32                      |
| Carpentry   |                           | 1                       |                        |                         |                        |                         |                        | 1                       |
| Ceramics  |                           | 1                       |                        |                         |                        |                         |                        | 1                       |
| Commercial  |                           | 7                       |                        |                         |                        |                         |                        | 7                       |
| Commercial Art  |                           | 1                       |                        |                         |                        |                         |                        | 1                       |
| Electrical  |                           | 1                       |                        |                         |                        |                         |                        | 1                       |
| Fine Arts   |                           |                         |                        |                         |                        | 1                       |                        | 1                       |
| Forestry Management                                   |                           |                         | 2                      |                         | 5                      |                         | 7                      |                         |
| Leadership Training                                   |                           | 17                      |                        | 14                      |                        | 19                      |                        | 50                      |
| Machinist   |                           | 1                       |                        |                         |                        |                         |                        | 1                       |
| Nursing   |                           |                         |                        |                         |                        | 6                       |                        | 6                       |
| Nursing Aides   |                           | 12                      | 1                      |                         |                        |                         | 1                      | 12                      |
| Pre-Vocational  |                           | 10                      |                        |                         |                        |                         |                        | 10                      |
| Renewable Resources                                   |                           |                         |                        |                         |                        | 1                       |                        | 1                       |
| Secretarial   |                           |                         |                        | 2                       |                        | 3                       |                        | 5                       |
| Teacher Training                                      |                           | 1                       |                        |                         |                        |                         |                        | 1                       |
| Typist Clerk  | —                         | 1                       | —                      | —                       | —                      | —                       | —                      | 1                       |
| Total   |                           | 87                      | 3                      | 16                      | 5                      | 30                      | 8                      | 133                     |



Appendix 2 (cont'd)  
 VOCATIONAL TRAINING COMPLETED BY  
 NORTHWEST TERRITORIES RESIDENTS<sup>1/</sup> BY ETHNIC ORIGIN  
FISCAL YEAR APRIL 1, 1968 and MARCH 31, 1969

| <u>Course</u>                           | <u>Number of Trainees</u>                        |    |  |    |  |    |  |    |
|---|--|----|--|----|--|----|--|----|
|   | <u>Eskimo</u>                                    |    | <u>Indian</u>                                    |    | <u>Other</u>                                     |    | <u>Total</u>                                     |    |
|   | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |    | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |    | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |    | <u>In</u> <sup>2/</sup> <u>Out</u> <sup>3/</sup> |    |
| <u>Occupational Training for Adults</u> |  |    |  |    |  |    |  |    |
| Academic Upgrading                      | 14   | 1  | 5  | 1  | 13   |    | 32   | 2  |
| Air Radio (D.O.T.)                      |  |    |  | 1  |  |    |  | 1  |
| Basic Seamanship                        |  | 5  |  | 3  |  | 4  |  | 12 |
| Beauty Culture                          |  |    |  |    | 5  |    | 5  |    |
| Big Game Guide                          |  |    | 21   |    |  |    | 21   |    |
| Boat Building                           |  | 4  |  | 4  |  | 4  |  | 12 |
| Camp Cooking                            |  |    | 4  |    |  |    | 4  |    |
| Canoe and Snowshoe Building             |  |    |  | 1  |  |    |  | 1  |
| Commercial                              |  | 1  |  |    |  |    |  | 1  |
| Commercial Cooking                      | 1  |    |  |    |  |    | 1  |    |
| Commercial Pilot                        |  | 1  |  |    |  | 2  |  | 3  |
| Community Health Worker                 |  |    |  | 1  |  |    |  | 1  |
| Co-op Clerks                            |  | 10 |  |    |  |    |  | 10 |
| Co-op Management                        |  | 9  |  | 1  |  |    |  | 10 |
| Driver Training                         |  |    | 8  |    |  |    | 8  |    |
| Firefighting                            |  |    | 75   |    | 25   |    | 100  |    |
| Fishing Inspection Officer              |  | 1  |  |    |  |    |  | 1  |
| Heavy Duty Equipment Operators          |  | 12 |  |    | 6  |    | 6  | 12 |
| Home Economics                          | 15   |    |  |    |  |    | 15   |    |
| Janitorial                              | 91   |    |  |    |  |    | 91   |    |
| Knitting (Factory)                      |  | 4  |  |    |  |    |  | 4  |
| Lay Dispensers                          | 4  |    | 4  |    |  |    | 8  |    |
| Marine Engineering                      |  | 4  |  | 4  |  | 4  |  | 12 |
| Mechanical Drafting                     | 1  |    |  |    | 17   |    | 18   |    |
| Nursing Aides                           |  | 1  |  | 2  |  |    |  | 3  |
| Nursing Aide Screening                  |  |    |  |    | 2  |    | 2  |    |
| Oil Burner Maintenance                  | 12   |    | 7  |    | 3  |    | 22   |    |
| Oil Well Drilling                       |  | 9  |  | 1  |  |    |  | 10 |
| Pre-Vocational                          | 14   |    |  |    |  |    | 14   |    |
| Radio Announcing                        |  | 1  |  |    |  |    |  | 1  |
| Skidoo Maintenance                      | 14   |    | 4  |    | 4  |    | 22   |    |
| Typing                                  | —  | —  | 4  | —  | 36   | —  | 40   | —  |
| Total                                   | 166  | 63 | 132  | 19 | 111  | 14 | 409  | 90 |

Appendix 2 (cont'd)  
 VOCATIONAL TRAINING COMPLETED BY  
 NORTHWEST TERRITORIES RESIDENTS<sup>1/</sup> BY ETHNIC ORIGIN  
FISCAL YEAR APRIL 1, 1968 and MARCH 31, 1969

| <u>Course</u>  | <u>Number of Trainees</u> |                         |                        |                         |                        |                         |                        |                         |
|--|---------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
|  | <u>Eskimo</u>             |                         | <u>Indian</u>          |                         | <u>Other</u>           |                         | <u>Total</u>           |                         |
|  | <u>In<sup>2/</sup></u>    | <u>Out<sup>3/</sup></u> | <u>In<sup>2/</sup></u> | <u>Out<sup>3/</sup></u> | <u>In<sup>2/</sup></u> | <u>Out<sup>3/</sup></u> | <u>In<sup>2/</sup></u> | <u>Out<sup>3/</sup></u> |
| <u>Other Vocational Training</u>                         |                           |                         |                        |                         |                        |                         |                        |                         |
| Art Lessons  |                           |                         |                        | 1                       |                        |                         |                        | 1                       |
| Hairdressing - Beauty Culture                            |                           |                         |                        |                         |                        | 1                       |                        | 1                       |
| Radio Operator   |                           |                         |                        |                         | 1                      |                         | 1                      |                         |
| Radio Repair   | <u>1</u>                  | —                       | —                      | —                       | —                      | —                       | <u>1</u>               | —                       |
| Total  | 1                         |                         |                        | 1                       | 1                      | 1                       | 2                      | 2                       |
| <u>Mobility and Relocation</u><br>(Training in Industry) |                           |                         |                        |                         |                        |                         |                        |                         |
| Airline Stewardess                                       |                           | 1                       |                        |                         |                        |                         |                        | 1                       |
| Ceramics   | 1                         | 1                       |                        |                         |                        |                         | 1                      | 1                       |
| Fiberglas Worker   |                           | 1                       |                        |                         |                        |                         |                        | 1                       |
| Labourers  |                           | 2                       |                        |                         |                        |                         |                        | 2                       |
| Paper Box Worker   |                           | 1                       |                        |                         |                        |                         |                        | 1                       |
| Seamanship - Deckhand                                    |                           |                         |                        |                         | 1                      |                         | 1                      |                         |
| Store Clerk (handicraft Store)                           |                           | 1                       |                        |                         |                        |                         |                        | 1                       |
| Taxidermy  | —                         | <u>1</u>                | —                      | —                       | —                      | —                       | —                      | <u>1</u>                |
| Total  | 1                         | 8                       |                        |                         | 1                      |                         | 2                      | 8                       |
| Grand Totals   | <u>400</u>                | <u>181</u>              | <u>218</u>             | <u>43</u>               | <u>280</u>             | <u>69</u>               | <u>898</u>             | <u>293</u>              |
|  | 581                       |                         | 261                    |                         | 349                    |                         | 1,191                  |                         |

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Source: Department of Education, N.W.T. Government

Appendix 3  
 VOCATIONAL TRAINING COURSES TAKEN WITHIN THE  
 NORTHWEST TERRITORIES, 1971/72 BY SETTLEMENT AND  
ETHNIC ORIGIN OF TRAINEES

|   | <u>Eskimo</u> | <u>Indian</u> | <u>Other</u> | <u>Total</u> |
|---|---------------|---------------|--------------|--------------|
| <u>Chesterfield Inlet</u>               |               |               |              |              |
| Basic Training for Skill<br>Development | 16            |               |              | 16           |
| Basic Literacy                          | <u>30</u>     |               |              | <u>30</u>    |
| Total                                   | 46            |               |              | 46           |
| <u>Spence Bay</u>                       |               |               |              |              |
| Housing                                 | 40            |               |              | 40           |
| <u>Holman Island</u>                    |               |               |              |              |
| Home Nursing                            | 16            |               |              | 16           |
| <u>Fort Resolution</u>                  |               |               |              |              |
| Trapping                                |               | 4             | 2            | 6            |
| <u>Fort Simpson</u>                     |               |               |              |              |
| Basic Training for Skill<br>Development |               | 19            | 6            | 25           |
| <u>Coppermine</u>                       |               |               |              |              |
| Basic Training for Skill<br>Development | 24            |               |              | 24           |
| Smoke Tanning                           | <u>20</u>     |               |              | <u>20</u>    |
| Total                                   | 44            |               |              | 44           |
| <u>Yellowknife</u>                      |               |               |              |              |
| Continuing Education                    |               |               | 1            | 1            |
| School for Retarded                     | 2             | 1             |              | 3            |
| University Entrance                     |               | 1             | 1            | 2            |
| Cook                                    |               | 3             |              | 3            |
| Custodian                               |               | 1             |              | 1            |
| Pre-School Instruction                  | <u>    </u>   | <u>15</u>     | <u>1</u>     | <u>16</u>    |
| Total                                   | 2             | 21            | 3            | 26           |
| <u>Fort Franklin</u>                    |               |               |              |              |
| Basic Training for Skill<br>Development |               | 17            |              | 17           |

Source: Annual Report, 1971-72, N.W.T. Government

Appendix 3 (cont'd)

VOCATIONAL TRAINING COURSES TAKEN WITHIN THE  
NORTHWEST TERRITORIES, 1971/72 BY SETTLEMENT AND  
ETHNIC ORIGIN OF TRAINEES

|  | <u>Eskimo</u> | <u>Indian</u> | <u>Other</u> | <u>Total</u> |
|--|---------------|---------------|--------------|--------------|
| <u>Fort Smith - Adult Vocational Training Centre</u> |               |               |              |              |
| Telecommunications                                   | 3             | 4             | 5            | 12           |
| Nursing Assistant                                    | 3             | 5             | 4            | 12           |
| Basic Training for Skill Development                 | 11            | 21            | 10           | 42           |
| Teacher Education                                    | 7             | 14            | 8            | 29           |
| Air Cargo Handling                                   | 4             |               |              | 4            |
| Welding  | 3             | 4             | 4            | 11           |
| Carpentry  | 3             | 4             | 3            | 10           |
| Heavy Duty Mechanic                                  | 4             | 6             | 4            | 14           |
| Junior Business Administration                       | 3             | 5             | 2            | 10           |
| Clerk Typist   |               |               | 2            | 2            |
| Academic Upgrading                                   | 8             |               |              | 8            |
| Heavy Duty Truck Driver Training                     | 3             | 4             | 3            | 10           |
| Guide Training                                       | 14            | 17            |              | 31           |
| Life Skills  | <u>2</u>      | <u>4</u>      | <u>4</u>     | <u>10</u>    |
| Total  | 68            | 88            | 49           | 205          |
| <u>Hay River</u>                                     |               |               |              |              |
| Sewing   |               | 5             | 36           | 41           |
| <u>Gjoa Haven</u>                                    |               |               |              |              |
| Sewing   | 20            |               |              | 20           |
| <u>Aklavik</u>                                       |               |               |              |              |
| Rod and Chainman                                     | 10            | 10            |              | 20           |
| <u>Latham Island</u>                                 |               |               |              |              |
| Pre-School Instruction                               |               | 15            |              | 15           |
| <u>Rae-Edzo</u>                                      |               |               |              |              |
| Driver Training                                      |               |               | 30           | 30           |

Appendix 3 (cont'd)

VOCATIONAL TRAINING COURSES TAKEN WITHIN THE  
NORTHWEST TERRITORIES, 1971/72 BY SETTLEMENT AND  
ETHNIC ORIGIN OF TRAINEES

|                               | <u>Eskimo</u> | <u>Indian</u> | <u>Other</u> | <u>Total</u> |
|-------------------------------|---------------|---------------|--------------|--------------|
| <u>Frobisher Bay</u>          |               |               |              |              |
| Vocational Upgrading          | 12            | 2             |              | 14           |
| Eskimo Language               |               |               | 8            | 8            |
| Homemakers                    | 80            |               |              | 80           |
| Typing                        | 6             |               | 4            | 10           |
| Shopping & Budgeting          | 30            |               |              | 30           |
| Social & Housing              | <u>6</u>      | <u>—</u>      | <u>—</u>     | <u>6</u>     |
| Total                         | 134           | 2             | 12           | 148          |
| <u>Correspondence Courses</u> |               |               |              |              |
| Business Math & Bookkeeping   |               | 2             |              | 2            |
| Aircraft Maintenance          |               |               | 1            | 1            |
| Miscellaneous                 | <u>3</u>      | <u>—</u>      | <u>2</u>     | <u>5</u>     |
| Total                         | 3             | 2             | 3            | 8            |
| <u>Clyde River</u>            |               |               |              |              |
| Social & Housing              | 15            |               |              | 15           |
| <u>Adult Evening Classes</u>  |               |               |              |              |
| Fort Resolution               |               | 20            | 5            | 25           |
| Coppermine                    | 6             |               | 10           | 16           |
| Pelly Bay                     | 40            |               |              | 40           |
| Yellowknife                   |               | 25            | 301          | 326          |
| Fort Rae                      | <u>—</u>      | <u>20</u>     | <u>—</u>     | <u>20</u>    |
| Total                         | 46            | 65            | 316          | 427          |
| <u>Training on-the-job</u>    |               |               |              |              |
| Telecommunications Operator   |               |               | 6            | 6            |
| Tradesman's Helper            |               | 2             |              | 2            |
| Mill Helper                   |               | 2             |              | 2            |
| Heavy Duty Mechanic           |               | 1             |              | 1            |
| Assistant Cook                | <u>1</u>      | <u>—</u>      | <u>—</u>     | <u>1</u>     |
| Total                         | 1             | 5             | 6            | 12           |



## Appendix 3 (cont'd)

VOCATIONAL TRAINING COURSES TAKEN WITHIN THE  
NORTHWEST TERRITORIES, 1971/72 BY SETTLEMENT AND  
ETHNIC ORIGIN OF TRAINEES

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|   | <u>Eskimo</u> | <u>Indian</u> | <u>Other</u>  | <u>Total</u> |
|---|---------------|---------------|---------------|--------------|
| <u>Igloolik</u>                         |               |               |               |              |
| Basic Training for Skill<br>Development | 20            |               |               | 20           |
| <u>Pond Inlet</u>                       |               |               |               |              |
| Basic Training for Skill<br>Development | 11            |               |               | 11           |
| <u>Pangnirtung</u>                      |               |               |               |              |
| Social & Housing                        | <u>6</u>      | <u>      </u> | <u>      </u> | <u>6</u>     |
| Grand Total                             | 482           | 283           | 433           | 1,198        |

## APPENDIX 4

A SUGGESTED APPROACH TO THE TRAINING OF  
TERRITORIAL RESIDENTS FOR PIPELINE EMPLOYMENTTraining Required

Potentially, a pipeline construction program in the N.W.T. could offer employment to territorial residents. A large portion of the labour required for pipeline construction is comprised of highly skilled occupations having prior pipeline experience (e.g., pipeline welders and specialized equipment operators). Nevertheless, there would be a significant number of job opportunities for less skilled classifications which might be filled by territorial residents. Previous pipeline experience would be a definite asset. However, in view of labour shortages anticipated by pipeline contractors, the less skilled classifications could be filled by territorial residents having pipeline related occupational experience combined with training.<sup>1/</sup>

Territorial residents with appropriate occupational experience would require training in the form of job familiarization. It has been suggested that in familiarizing workers for pipeline employment school instruction should be interspersed with, and supplemented by, field operating experience.<sup>1/</sup>

Training Camp and Equipment

Necessary training could be provided to territorial residents by setting up a construction training camp staffed with instructors who could give classroom and field training.

Norman Wells, located at approximately the midpoint of the Mackenzie Pipeline route through the northern territories, might be an appropriate location for a training camp. The size of the camp and the type of facilities provided for board and room could be similar to camps established to support a construction spread.

Two types of benefits could be realized by establishing a training camp in this manner. First, conditions of a construction camp would be duplicated for the trainees

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<sup>1/</sup> Gant, W. and Meeres, R.D., Construction Problems: Arctic Pipeline, a paper presented to the Canadian Northern Pipeline Research Conference, Ottawa, February, 1972.

to familiarize them with the "psychological stresses imposed by long periods of semi-isolation in a harsh environment."<sup>1/</sup> The second benefit would be the salvage value of such a camp and equipment after the training program was completed. The cost of establishing the camp and its attendant facilities would be in the order of \$855,000.<sup>2/</sup> When the training phase was completed, the camp could readily be converted into an operating construction camp for about half the cost it would otherwise require. Thus, the salvage value of a training camp which would subsequently be converted into an operating construction camp would be about \$428,000.

The suggested training program would, in addition to the camp, require sufficient equipment to duplicate field construction conditions. If it is assumed that the equipment required would be equivalent to that used by a construction spread, its value would be in the order of \$1,000,000. About one-half of the equipment value could be realized as salvage if the training camp was subsequently converted to an operating camp supporting a construction spread.

It is estimated that 70 men would be required to operate and maintain the camp. At any one time, 450 trainees and an estimated 50 instructors would be residing in the camp. Operating and maintenance personnel, trainees and instructors would total 570.

### Training Courses

Training would be limited to providing job familiarization for territorial residents with pipeline-related experience.<sup>3/</sup> In order for the training program to approximate the actual conditions of pipeline construction, the duration of training courses could correspond to anticipated pipeline work patterns.

### Training Costs

The cost of training territorial residents would include board and room, a training allowance, cost of instruc-

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<sup>1/</sup> Ibid.

<sup>2/</sup> Capital cost of establishing a camp assumes 570 men at a capital cost of \$1,500/man. See Volume 2 for a general discussion of camp facilities and cost.

<sup>3/</sup> See Volume 6, Part 2.

tion, travel expense and the cost of providing the camp facilities and equipment for training. In order to estimate average training costs, the following assumptions have been made:

- (a) Board and Room - The cost of board and room per man in pipeline construction camps has been estimated at \$17.50 per day.<sup>1/</sup> Assuming the same cost for trainees, the cost for board and room for the three month course would be in the order of \$1,575 per trainee.
- (b) Training Allowance - A training allowance to provide for income maintenance is assessed at \$984 per trainee. This assumption is based on the training allowance provided by Canada Manpower to trainees having three dependents at a rate of \$82.00 per week.
- (c) Instruction Cost - The cost of instruction is estimated at \$1,460 per trainee. This assumption is based on the average cost per month for purchasing space in courses sponsored by the Department of Manpower and Immigration for heavy equipment operators, heavy duty mechanics, pre-employment carpentry and pre-employment welding.
- (d) Cost of Camp and Equipment - The total cost of the camp and equipment is estimated at \$1,855,000. If one-half of this cost is attributed to the training program, the cost per trainee would be in the order of \$464 to \$618 per trainee, depending upon the total number trained.
- (e) Travel Expense - The cost of travel to and from the training camp is assumed at an average of \$250 per trainee.

Table 1 shows the estimated training costs for 1,500 and 2,000 trainees.

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<sup>1/</sup> See Volume 2 for a general discussion of camp operating costs.

Part 4

THE SOCIAL AND ECONOMIC IMPACT  
ON NATIVE NORTHERNERS OF  
SHORT-TERM WAGE EMPLOYMENT





## Part 4

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## CHAPTER 1

INTRODUCTIONPurpose

Unemployment and underemployment and their related social ills, have been chronic in the Canadian North for a generation. The structural impediments to full employment in the North, such as seasonality of work, incongruity between existing local skills and those required for industrial jobs, geographical immobility, and so on, are well known. Because there is probably no method which is at once ideal and practical for measuring unemployment in the North, percentage figures must always be treated with caution. Government estimates of unemployment among the male native labour force of the Mackenzie Valley have ranged as high as 50 per cent. A crude analysis of the N.W.T. Manpower Survey data<sup>1/</sup> indicated that in terms of total man-weeks over a one year period, this labour force was being utilized at only two-thirds capacity. The construction of one or more large-diameter pipelines for oil and gas in the Mackenzie Valley offers the possibility of ameliorating this situation.

The purpose of this paper is to examine whether employment generated by pipeline construction will in fact benefit native northerners. It seeks, on the basis of both past experience and present circumstances, to identify specific socio-economic costs and benefits of short term employment related to the construction phase, and their allocation among various sectors of Northern society. The role of pipeline employment in the more general context of northern development strategy will also be discussed.

Much background material and quantitative data are presented elsewhere in these volumes. This paper does not attempt to reiterate this information, nor is it intended to add another detailed segment of facts on a specific topic to the total body of information. It is instead a more general discussion of the social and economic implications for native northerners of pipeline employment. It is an exploratory and preliminary statement of the problem, which seeks more to generate hypotheses and indicate directions for further inquiry than to present final answers.

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<sup>1/</sup> Conducted by the Department of Indian Affairs and Northern Development, and covering the period October 1, 1969 to September 30, 1970. See Volume 6, Part 1.

### Definitions and Assumptions

The use of the phrase "short term wage employment" is restricted here to a consideration of direct employment in construction either of the pipeline itself or of related facilities such as access roads, storage and maintenance depots, or temporary accommodations; that is to say, all employment offered by contractors responsible to the pipeline consortium during and for the construction phase.<sup>1/</sup> Such employment will involve, for native people particularly, the use of unskilled labour, or of semi-skilled or skilled labour with specializations related chiefly to the construction industry.

The designation of such employment as "short term" in this paper is based on several facts and assumptions. Overall, the construction phase will last approximately three seasons, with possible extensions resulting from pre- and post-construction phase work. At any one location, the duration of these phases will presumably be rather less. In addition, certain skills may be required for only one or two seasons. Therefore, construction and related employment on the pipeline can last a maximum of perhaps four or five seasons (unless gas and oil pipelines are built in sequence). Most individual jobs may in fact last for less time by virtue of changing requirements for specific skills, by the movement of crews from one district to another, and the seasonality of the work. The additional assumption is made that in order for such temporary employment to become a long term career, either the pipeline must be followed by similar massive construction projects in the North, or those northerners who have acquired the appropriate skills must move south in order to continue making use of them. Because one cannot state with certainty that government or industry will guarantee the first, or that northerners will want to do the second, employment in the construction phase must be considered short term.

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<sup>1/</sup> In general, however, the burden of this paper applies with equal force to the construction of an all-weather highway along the Mackenzie Valley.



## CHAPTER 2

PREVIOUS EXPERIENCE WITH SHORT TERM CONSTRUCTION PROJECTSDEWLine and Inuvik

Before discussing the pipeline project in detail, it will be useful to examine the experience with similar previous construction projects. In the 1950's, there were two such major projects involving Mackenzie Valley residents: the DEWLine and Inuvik. These projects came at a time when the local economy was very depressed. Both were relatively labour intensive, and offered what seemed high wages for relatively unskilled work. The employment generated by these projects was seen by the government as an opportunity for native people, not simply in terms of the immediate wage inputs to the local economy, but also as a means of initiating a major shift to wage employment in the North. Trapping and hunting seemed dead or dying; permanent or even long term, balanced northern economic development seemed years away, and temporary construction projects seemed an effective means of transition between the two. In other words, the benefit to native people was seen to lie not only in wages, but also in training and experience for the modern industrial world - a world marching inexorably closer toward their own doorstep. The government therefore undertook to provide vocational training opportunities for native people, and to ensure that they were hired in significant numbers on these construction projects (see, for example, Phillips, 1967).

In considerable measure these immediate goals were realized. Ferguson (1957:28) estimated that in the Western Arctic nearly 200 men, (about one quarter of the potential labour force) were employed on the DEWLine in the summer of 1956, one of the peak construction years. Over 50 Indians from the Mackenzie River also found employment on the DEWLine. The simultaneous construction of Inuvik also employed significant numbers of native people, chiefly from the Mackenzie Delta itself.

A heavy equipment operators course was initiated at Leduc, Alberta, which many native people attended. This, as well as other vocational training opportunities and on-the-job experience, provided many people with new skills. The wage input to the local economy was very significant as well. Ferguson's data (1957:37) suggest that native employees on the DEWLine collectively earned about \$500,000 in 1956. Most of these employees worked steadily for the greater part

of the year, so long as employment was actually available. Individuals earned \$3,000 - \$4,000, far more than was possible on the trapline for most of them at that time, although they incurred extra costs for themselves and their families by assuming wage employment because they became less self-sufficient in terms of food, clothing and shelter.

#### Some Effects of the Projects

In the longer term, some of the significant effects of this short term employment were as follows:

1. Major population shifts. Short term employment, while by no means the sole cause of population movement, contributed to a situation in which large numbers of people abandoned the small, scattered camps for town-oriented life. Locations dictated by administrative and defence needs were not necessarily congruent with traditionally resource-rich areas. Many people therefore were unable to maximize local resource and wage employment opportunities simultaneously. For this and other reasons explained below, a shift to wage employment entailed a longer term commitment than was envisaged by many native people.
2. The short term injection of cash permitted an inflated and unrealistic living standard that could not be maintained in the longer term. Income was often disposed of almost as soon as it was realized, and long term savings were minimal. This is partly because the financial mechanisms were largely restricted to short term savings (i.e. local store accounts, and personal savings accounts with chartered banks which were encouraged by Northern Service Officers), and because most native people were simply not oriented to the idea of saving money for some indefinite future purpose. There were, of course, some wage earners who saved considerable amounts, often to invest in capital equipment for renewable resource harvesting. Ferguson noted that these had often been the best trappers and hunters prior to employment. Others saved for short term purposes such as the purchase of radios, tape recorders, cameras, or for travel "outside". Gambling was also a significant means of redistributing wealth. In the case of

Inuvik, some individuals purchased frame houses which had served as bunkhouse accommodation during the construction years, although these were also acquired through compensation for houses in Aklavik, and through welfare. Particularly in the Delta, such spending patterns were typical of those already developed during the earlier boom period of the fur trade (Usher, 1971:50-55). These patterns were also influenced by transient white co-workers, some of whom advocated saving, others of whom encouraged "binge" spending.

3. Very rarely were spending and saving patterns similar to those customary in southern Canada. This was due partly to the lack of similar opportunities or mechanisms, and partly to the lack of similar incentives or inclination. People rarely committed themselves to the long-term purchase of a house or household furnishings through mortgages or credit, to the capitalization of one's own business, to investment in stocks or bonds to generate further revenue, or to investment in pensions and insurance as deferred income. Not only were savings not used for individual advancement (as perceived by southern Canadians), they were not used for collective advancement either. That is to say, groups or communities did not pool their individual savings for community improvements or for investment in cooperatives or similar ventures, save for isolated examples such as the Inuvik housing cooperative. Clearly it cannot be assumed that if native people begin to earn similar incomes to whites, they will dispose of this income in similar fashion; or at least in the fashion valued by middle class southern Canadians.

For every man who saved and invested in new capital equipment (and it must be noted in any case that depreciation on such equipment is fairly rapid), many more allowed their existing stocks to dissipate. This was often due to circumstances beyond their immediate control. The result was that when employment ceased, many no longer had the traps, dogs and boats necessary to resume their land-based activities, nor the means to purchase such equipment. Loans and advances were made available in some instances, but rarely in sufficient amounts.

4. Because comparatively high wages were obtained for what in most cases was unskilled labour in relaxed work situations, unrealistic expectations were built up which could not be realized in a more normal and competitive labour market even if jobs had been subsequently available in larger numbers than was actually the case.
5. Some men learned new skills fitted for continued wage employment; chiefly the operation of heavy equipment. The opportunities for utilizing these skills following the construction period were quite limited, especially in the smaller settlements. The number of such men is unknown, but many, and perhaps most, have received little long term benefit from their training and job experience. Unable to use their skills regularly, they presumably become less and less qualified by virtue of lack of practice and unfamiliarity with new equipment.

The acquisition of vocational skills was not in itself sufficient to encourage greater labour mobility, and as a result very few men who acquired them actually moved to other parts of the North, or to southern Canada, where they could use them. Family and community ties, unfamiliarity with other areas and social situations, and the preference for a mixed wage and land economic and cultural orientation, were among the factors resulting in this immobility.

6. Many people have observed that, particularly amongst Eskimos, there was a tendency for the best trappers and hunters, who were often accordingly leaders in their communities or camps, to assume wage positions more readily and to succeed in them on a long term basis (Ferguson, 1957:38; Stevenson, 1971:23). These men either left their communities entirely for construction camps or larger settlements, or they became part of a select group within the community which obtained the few available full-time wage positions. There was thus a "decapitation" effect on many camps and small communities so that those remaining were less able to pursue their traditional activities effectively and less able to cope with social changes.



## CHAPTER 3

PRESENT STATUS AND ATTITUDES TOWARD WAGE EMPLOYMENT

The present situation with regard to wage labour employment among native people, as well as their attitudes to it, is in part a legacy of these experiences. Some outstanding aspects of this situation are as follows:1/

1. Land based activities are no longer of primary economic significance in dollar terms, at least in the larger settlements. Recent surveys indicate that the proportion of cash income to native people derived from trapping varies from less than ten per cent in the larger settlements to perhaps thirty per cent in the medium sized ones (viz. Higgins, 1969:182, 206; Smith, 1971:306, Villiers, 1968:122, 129). Even if the cash equivalent value of fish and game is included, most native families in the Mackenzie Valley now derive more income from wage labour than from land-based activities. The movement off the land and into the towns has already occurred, and can no longer be thought of as a continuing process, except in the sense that there appears to be a continuing net out-migration from smaller centres to larger ones2/, possibly involving continued "decapitation effects" as described above. In the minds of many native people, however, this is not necessarily seen as the end result of an irreversible process (see below).

In the larger Mackenzie Valley towns particularly, there now exists, as noted in the Introduction, an under-employed native labour pool, having certain sociological

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1/ These remarks apply particularly to the Lower Mackenzie Valley and the adjacent Arctic Coast, the areas most familiar to the writer.

2/ Examination of preliminary census returns for the Mackenzie Valley indicates that the number of people living in traditional settlements or camps (i.e. not including mining towns) of under 500 was 2,351 in 1966 and 2,420 in 1971. This indicates a net growth rate of less than one per cent per annum, far less than for the valley as a whole, and also less than the average rate of natural increase. This strongly suggests a net out-migration from the smaller settlements and camps over the last five years.



characteristics of a "lumpenproletariat", as defined, for example, by Brody (1971:27)<sup>1/</sup>. So far as native people are concerned, jobs are the major economic resource such towns offer. The impact on population distribution of a major construction program now cannot be analagous to the situation of fifteen years ago. The problem is presently more a social one of the implications of labour mobility from home communities to temporary work sites (see, for example, Deprez, 1971:69-71). Land based activity still has important social and cultural implications despite its decline in economic significance.

2. There is some degree of participation by native people in wage employment, and their commitment to such employment and its associated way of life is slowly increasing (Wolforth 1971:112-115). Yet this participation is even today limited largely to the less skilled and lower paid sectors of the labour force, as Wolforth also documents. This is in spite of government efforts both to upgrade the skills and experience of the local labour force, and to make hiring practices and requirements more appropriate to the local labour force. Everywhere in Canada, industry requires an increasingly skilled and sophisticated labour force. This seems no less true of the North. Yet due to the particular problems of economic adjustment and cultural change in the North, as discussed in this and other reports, the problems of developing an appropriately skilled and sophisticated labour force are greater there than elsewhere. It may in fact be that the skills, education and experience required for most northern wage positions, and especially those offering the highest remuneration, status and power, are increasing at a rate faster than the effective implementation of the programs just mentioned.

There is emerging, then, a very definite correlation between ethnic status and class structure. It is also still true that there is higher turnover of native people than of whites in their jobs, particularly in the larger settlements where there is a more diversified labour

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<sup>1/</sup> i.e., having little or no attachment to any stabilized socio-economic class or to the means of production.

force (see Wolforth, 1971:118)<sup>1/</sup>. In part this is attributable to the differing nature of these jobs (i.e., that turnover rate is primarily a function of the job itself than of the ethnic status of the incumbent). It is also due to differing attitudes toward wage employment as will be explained below. In any case, the emergence of an ethnic-based class structure is not a desirable development. It certainly contributes to the increasing polarization and hostility between the white and native communities in the North.

3. The attitudes of large numbers of native people to wage employment would not appear to have changed significantly in recent years. Lifetime commitment to wage employment, as well as the associated saving, spending and career planning patterns implicit in this way of life, is not widespread. The economic history of much of the Mackenzie Valley and the adjacent Arctic Coast has been one of boom and bust, from the whaling and fur trade days to the present. Little or nothing in the experience of most native people has given them reason to share the economic assumptions of most Canadians today. The idea of moving inevitably up a career ladder, of having one's pay packet increase at five per cent per year, of getting a new couch this year and a colour TV the next; in short, the assumptions of continuing and almost uninterrupted economic progress toward plenty through "hard work", are not current among native northerners.

Jobs are then a resource to be exploited toward specific ends. Many native northerners, especially those only partially oriented toward town life, tend to seek and then leave jobs once they have earned enough money for some specific purpose. In the unskilled and semi-skilled sectors, where turnover is high, Wolforth suggests that

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<sup>1/</sup> In the smaller settlements particularly, there are native people who long ago assumed such jobs as school janitor, special constable or store clerk, and have since seen many of their respective supervisors - the principals, corporals and managers - come and go. In the industrial sectors such as construction and mineral exploration, however, the length of tenure by native employees tends not only to be much shorter, but also less predictable (by their employers, at least).

the ease of obtaining such jobs on a short term basis results in jobs not being valued for their own sake, but rather as temporary strategies. Such attitudes would presumably be reinforced by the prevalent availability of jobs which are in fact of short term duration. The idea that employment in the low paying, unskilled sectors of the labour force is an inevitable stage of an assimilation process whereby native people will eventually progress to the higher stages through the adoption of work and wage ethics may make sense to whites, but apparently it does not make sense to large numbers of native people.<sup>1/</sup> The polarization process referred to above may be a manifestation of the plural social structure documented by Smith (1971). Smith notes several barriers to mobility between the two sectors and raises the question of whether upward mobility and integration do follow naturally from the mere entry of native people into the labour force. He suggests that this and related developments tend rather to rigidify ethnic and class differences.

4. The importance of the land and its resources to native people today is not generally appreciated by non-native people. The question is related to the attitudes toward wage employment and economic progress described above. Given that the "white man's economy" appears to many native people as an erratic, boom-bust phenomenon, the land and its resources are by comparison permanent. It is perhaps for this reason that concern is expressed by native people about development activities which affect the productivity of the land and permanence of its resources, even by those now holding regular employment. Such people may prefer wage employment to hunting and trapping, but they may also see the latter as insurance against the day when employment may not be available. This attitude, although seldom articulated explicitly, appears to be deep-rooted and widespread.

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<sup>1/</sup> With good reason, one might add, for the notion does not stand up well to sociological examination, either in the North or elsewhere. The streaming of students, and their point of entry into the labour force, are becoming increasingly strong determinants of their subsequent careers, income and status, (see, for example, Berelson and Steiner, 1964:470-473).

There is also a cultural attachment to the land-based way of life, as evidenced by the fact that many permanent employees still hunt and trap in their spare time. One recalls the opposition some years ago to the proposal of splitting the general hunting licence into separate hunting and trapping licences, the latter to be unobtainable by those in regular employment. Some have suggested that the concern of employed, relatively "acculturated" native people with the land and its resources is either a phony or a pretext. If our hypothesis is valid, such suggestions would be largely or entirely incorrect. The increasing consciousness of the land rights issue on the part of many native people, however, introduces another element. Some may fear that by failing to exercise their traditional use of the land, they may be jeopardizing their effective claim to it. This would be a negative factor in encouraging both entry into the labour force and geographical mobility.

5. There do not appear to have been significant changes in the spending and saving patterns which were characteristic among native people in the 1950's. Cash surplus to immediate needs is still spent largely with short term objectives on non-durables, or on such durable items as snowmobiles and outboards, now of more significance as pleasure vehicles than as means of production. Typically southern Canadian financial mechanisms for savings and investment, such as banks and insurance agencies, are now more widespread in the North, but these are still not widely used by native people except for short term savings (see, for example, Smith, 1971:302).

Many native people in the Mackenzie Delta are cynical about wage employment derived from oil and pipeline activity, including those who have obtained such employment. They feel that although there is more money available, it is of little long term value to them: "we just piss it away in the hotel and we're not better off in the end". Like so many short-lived economic booms in the past, the prevalent attitude to wage employment in oil activity is to make the most of it while it is there and suffer the hangover afterwards. Typically, whites interpret this as laziness and improvidence. From a social scientific point of view, however, such behaviour is more readily explained by the alienation and powerlessness felt by native people individually and collectively. Job opportunities may be available to native people, but power and status are clearly, in their eyes, monopolized by the white community. Local control and



participation by native people are perceived by them to be declining, and improved access to jobs and wages are not seen as a remedy to this larger problem, although clearly the great majority do want some form of employment as a means of obtaining cash. Jobs, then, may be a necessary but not sufficient means of rectifying the basic social conflicts and ills of northern society.

More specifically, although there are now financial institutions to facilitate savings, these are in the control of the white and externally controlled sector of the economy. There is no significant financial infrastructure within the native sector to enable the accumulation and disposal of funds under local collective control, although clearly the few native businesses, and the local cooperatives with their limited roles and responsibilities, represent beginnings in that direction.

The general observations made in this section apply chiefly to adults. Less is known about how the schools have altered attitudes toward employment, spending and saving among younger people including those now entering the labour market. Smith's work (1971) suggests that job aspirations among native children are not significantly different from those of white children in the N.W.T. He also suggests, however, that there has been no corresponding convergence in the attitudes toward the means of realizing these aspirations.



## CHAPTER 4

THE FUTUREObjectives

Deprez' remarks in a recent report on native employment at Pine Point are relevant to a discussion of objectives.

"When priority is given to the development of natural resources in a given area then different reasons could be underlying this development. The reason can be strictly in terms of demands for this given natural resource or in terms of financial benefits. When this standpoint is taken, increased employment resulting from that development is only considered to be a by-product. Another reason for developing natural resources can be the need for increased employment and/or increased economic viability of a community or a group of communities. In that case the development of natural resources is only considered to be a vehicle, a means by which increased employment can be achieved. Whichever reason it may be one will have to plan the development in function of the reason to which priority has been given". (Deprez, 1971:193)

The investment of several billion dollars in a Mackenzie Valley pipeline would clearly be for the first reason and not the second. If a decision is made to build a pipeline, it follows that the Department of Indian Affairs and Northern Development, as well as the territorial government, will be in the position of accepting the basic technology and labour requirements involved. Despite these constraints, the policy options of these two agencies are still of considerable significance to the people of the Mackenzie Valley. These options include having some influence over the specific but not the general location of the pipeline, and particularly of temporary construction camps, as well as local construction and energy benefits resulting from pipeline activity. The two agencies will have even greater influence over the nature and benefits of the involvement of native people during the construction of the pipeline. Their strategies must be in keeping with the federal government's recently adopted northern development objectives. Those most relevant to the present discussion are:

- To provide for a higher standard of living, quality of life, and equality of opportunity for northern residents by methods which are compatible with their own preferences and aspirations.
- To encourage viable economic development within regions of the Northern Territories so as to realize their potential contribution to the national economy and material well-being of Canadians. (Canada, House of Commons, 1972:30).

These objectives can be, but are not necessarily, compatible. The construction of a pipeline in itself serves the latter objective primarily. It must be ensured that it also serves the first objective.

Two basic questions must therefore be answered:

1. Is short term employment during the construction phase the most appropriate means of maximizing the benefits of the pipeline to native northerners in terms of their own preference and aspirations?
2. If so, or if in part so, what employment strategies are the most appropriate, and are there other relevant development strategies?

#### Future Directions and Options

Rigid technological and labour requirements are significant constraints on native employment in pipeline construction. In Alaska it has been estimated that only about 40 per cent of the jobs involved in pipeline construction would be open to the bulk of the native labour force in terms of the skills required (Education Systems Resources Corp., 1971:63). In the Mackenzie Valley, where the labour force is less skilled, recent federal and territorial government estimates place potential native involvement at as low as 20 per cent. In both Alaska and Canada, these jobs are in the lower paid, less skilled categories.

In many wage labour situations involving native people, adaptations of the standard industrial work schedules and routines have been suggested or attempted with a view to making them conform more with traditional native practices and preferences. While such an approach is certainly to be encouraged, pipeline construction work schedules and routines are generally very rigorous and hence less adaptable than

those of many other industries. The difficulties and expense of employing people unable or unwilling to conform to these requirements may result in contractors fulfilling the letter but not the intent of employment guidelines. There is a risk that employers will place the required number of native people on their payrolls, but give them unrelated or even useless jobs so that the real work can be done quickly and competently by workers of the employer's own choice. While such a development would bring cash income to native people, it would certainly not give them long term benefits in skills and experience. It would also be demoralizing to them because they would soon recognize it as another form of welfare. This welfare would be paid by the Northern American public since the pipeline companies would presumably pass this added cost of doing business on to their customers.

The construction phase of the pipeline may be imminent. It is unrealistic to suppose that significant numbers of native people can be trained for other than unskilled or semi-skilled jobs in the next year or two. The cost of large scale training programs may in any case be well out of proportion to the benefits received, especially if the skills acquired will not be readily usable in people's home settlements. Careers in pipeline employment require high mobility, which for reasons outlined above is not to be expected among native people under present circumstances.

It has already been suggested that unemployment is only one facet of a larger socio-economic problem resulting from a lack of control or even participation by native people in many significant aspects of local life in the North. It also appears unrealistic to expect that the many other programs necessary to change that situation could be implemented by the time construction begins. It would follow that insistence on large scale native employment during the construction phase will serve to rigidify already developing ethnic-based class divisions, and that the income generated to native people will not be of lasting benefit to them. In short, such employment will not only fail to be "compatible with their own preferences and aspirations", but will also fail to provide a lasting basis for improving the standard of living or quality of life.

Nevertheless, it is in no way suggested that native people be denied employment in the construction of the pipeline. Those who are willing and able to take such employment should be encouraged to do so. It may be that if the contractors were encouraged to take the time and effort with a few really promising employees, greater benefit might be derived than if large numbers of less interested people were forced onto the contractors.



The burden of the argument to this point is that an employment policy based on either a quota system or compensatory hiring provisions would not in itself appear to be the most effective means of achieving the goals of increased income, job stability, social status and participation by native northerners. A more promising approach may be the principle of first refusal on all jobs. Jobs would thus be filled by outsiders only in the event that no willing and reasonably or readily qualified residents were available.

The principle of first refusal will ensure opportunities to those native people who really want employment during the construction phase, yet not cause undue disruption by pushing those who are not so anxious for this type of employment. To offer special enticements to get people to seek employment is to risk again the building up of unrealistic expectations of earnings and work routine relative to the tasks actually performed.

Such an approach does not exclude the possibility of combining some compensatory hiring features with it. Even if the principle of first refusal were adopted, some form of recruitment would still be necessary. At the very least, jobs must be advertised, placement officers would have to visit the settlements, and so on. In doing these things, some differentiation should be made between settlements in recruiting effort. In the larger towns such as Inuvik, there is a greater proportion of people already oriented to wage work, and a greater need for jobs which are practically the sole raison d'être of these communities' existence anyway, at least for native people. There is also, in the larger towns, a greater need for diversification and skills in the local labour force. People who acquire industrial skills and experience are more likely to put them to good use if they live in Inuvik than if they live in Arctic Red River.

In the smaller, more traditional and land-based communities, people remain there at least in part by choice, and prefer that way of life. These are the communities most likely to suffer severe social disruption and "decapitation effects" from massive recruiting efforts resulting in significant numbers leaving for wage employment elsewhere. In these smaller communities, efforts should be geared to making their economies more viable through improved use of local resources. This does not in any way imply a policy of denying employment to people in the small settlements (or, for that matter, trapping and hunting to people in the larger settlements). By encouraging differentiation of functions between the small and large settlements, a greater measure of choice is provided to northerners in the ways of life they can follow. There seems little point in replicating Inuvik in every northern settlement.

Indications are that pipeline employment will involve considerable labour mobility. Crews will be moved periodically between temporary camps, and construction may be of only a few months duration at any one time, presumably depending on the construction technology employed and on the land use regulations devised by the government. The social disruptions certain to be caused by the presence of large numbers of white transient workers in or near existing settlements are such that temporary camps should be located some distance away from these settlements, regardless of cost or inconvenience. For those who are employed in the construction phase, problems will arise from the disruption of family life, and neither allowing employees' families on site, nor accommodating men in temporary bunkhouses, will be without attendant difficulties. Possibly recruiting efforts should be directed to younger, single men, although their economic need may be less than that of older family men. Final employment arrangements will be strongly influenced by the contractors' arrangements with imported labour. If, for example, they use shift systems with free transportation in and out, similar arrangements will probably have to be made with native employees. Here there may be a risk of building up unrealistic expectations for future jobs. It is doubtful that any totally satisfactory solution can be found, but all parties should be fully aware of the costs and consequences of choosing any particular option.





## CHAPTER 5

CONCLUSIONSImpact of Pipeline

Short term construction employment on the pipeline will most likely be of direct benefit, in terms of income and experience, to only a fairly limited number of native people. For many others, the indirect effects of the pipeline will be an intensification of processes already entrained, especially in the larger communities. The social impact of the pipeline on most native northerners will tend to be an adverse one, though of degree rather than kind. The increased presence of oil and construction personnel, and the build-up of businesses and services catering primarily to them will increase the sense of alienation and loss of control of their own society and destiny on the part of most native people, despite increased employment opportunities in activities other than actual pipeline construction.

Possible Counter Measures

These problems cannot be solved in any significant way merely by the formulation of employment guidelines. Native people must be permitted to participate more actively in local developments and to exercise a greater degree of control over activities directly affecting them. Three specific directions are relevant here.

1. Local renewable resources are still a source of much potential wealth. Activities based on their harvesting and processing should be strengthened. In the past, programs toward this end have met with mixed success. One learns from experience, however, and clearly a set of separate, unrelated strategies for each industry will not suffice. An integrated approach is required which will encourage intersectoral linkages in order to develop a more balanced economy under as much local direction and control as possible.
2. Greater consideration should be given to secondary industries which will provide long term employment. Eventually this will have to come if there is to be any real basis for a sustained and ordered economy in the North. Too much attention to temporary solutions offered by

major construction projects merely postpones the day when serious consideration will have to be given to long term development. The pipeline does offer the prospect of long term employment, and every encouragement should be given to native people to take part in it. Yet the number of jobs involved in the operational phase will not nearly fulfill local requirements. What are we to rely on then? Plans for pipelines must not be made at the expense of policy for longer term development.

3. In encouraging both renewable resource and secondary industrial development, consideration should be given to the role of co-operatives and local development corporations as appropriate institutional frameworks. These are the mechanisms which will permit the greatest possible local control over the mobilization of capital, and hence encourage the actuality as well as the sense of participation by native people. Direct injections of cash, through royalties, land claims settlements, or other means, to such organizations (as in Alaska), may be a much more powerful means of achieving desired long term goals, than the injection of cash through wage employment on the pipeline.

#### Directions for Further Inquiry

The general social and economic problems of the North cannot be solved primarily through employment and income programs. The approach to their solution must be broadened, but in order to do so, considerably more understanding of the social and economic processes at work in the North will be required. In particular, there is a need for greater understanding about the attitudes and values held by native people, such as their attitudes to the land and its resources, to the economy, and particularly their goals related to jobs, careers, savings, spending, and what differences exist in these attitudes between older people and younger people. Several hypotheses have been suggested in this paper, but they require testing and validation.

In addition, further consideration is required of the means and possibilities of encouraging local savings and developing investment mechanisms for longer term and larger scale purposes. How effective a role would the development of such institutions play in solving social and economic problems?

In conclusion, employment during the construction phase will be of benefit to limited numbers of people. Employment guidelines should emphasize maximizing these benefits to those most able to realize them, rather than pushing as many people as possible into such employment with no clear long term goal.

Construction employment should not be seen as the sole solution for the employment problems of large numbers of native people. Consideration should also be given to a number of possible alternative solutions such as outlined in this paper.

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